The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2012-2013 academic year, including the Summer Semester 2012, the Fall Semester 2012 and the Winter Semester 2013.

For your convenience the Undergraduate Calendar is available in PDF format. If you wish to link to the Undergraduate Calendar please refer to the Linking Guidelines.

The University is a full member of:

- The Association of Universities and Colleges of Canada

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University of Guelph 2012

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2012-2013 academic year, including the Summer Semester 2012, the Fall Semester 2012 and the Winter Semester 2013.

The University reserves the right to change without notice any information contained in this calendar, including fees, any rule or regulation pertaining to the standards for admission to, the requirements for the continuation of study in, and the requirements for the granting of degrees or diplomas in any or all of its programs. The publication of information in this calendar does not bind the University to the provision of courses, programs, schedules of studies, or facilities as listed herein.

The University will not be liable for any interruption in, or cancellation of, any academic activities as set forth in this calendar and related information where such interruption is caused by fire, strike, lock-out, inability to procure materials or trades, restrictive laws or governmental regulations, actions taken by faculty, staff or students of the University or by others, civil unrest or disobedience, public health emergencies, or any other cause of any kind beyond the reasonable control of the University.

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Published by: Enrolment Services
Introduction

Collection, Use and Disclosure of Personal Information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) [http://www.e-laws.gov.on.ca/index.html]. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes. Certain personal information is disclosed to external agencies, including the Ontario Universities Application Centre, the Ministry of Training, Colleges and Universities, and Statistics Canada, for statistical and planning purposes, and is disclosed to other individuals or organizations in accordance with the Office of Registrarial Services Departmental Policy on the Release of Student Information. For details on the use and disclosure of this information call the Office of Registrarial Services at the University at (519) 824-4120 or see [http://www.uoguelph.ca/registrar/registrar/index.cfm?index].

Statistics Canada - Notification of Disclosure

For further information, please see Statistics Canada's web site at [http://www.statcan.ca] and Section XIV Statistics Canada.

Address for University Communication

Depending on the nature and timing of the communication, the University may use one of these addresses to communicate with students. Students are, therefore, responsible for checking all of the following on a regular basis:

Email Address

The University issued email address is considered an official means of communication with the student and will be used for correspondence from the University. Students are responsible for monitoring their University-issued email account regularly. See Section I--Statement of Students' Academic Responsibilities for more information.

Home Address

Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through Enrolment Services.

Name Changes

The University of Guelph is committed to the integrity of its student records, therefore, each student is required to provide either on application for admission or on personal data forms required for registration, her complete, legal name. Any requests to change a name, by means of alteration, deletion, substitution or addition, must be accompanied by appropriate supporting documentation.

Student Confidentiality and Release of Student Information Policy Excerpt

The University undertakes to protect the privacy of each student and the confidentiality of his or her record. To this end the University shall refuse to disclose personal information to any person other than the individual to whom the information relates where disclosure would constitute an unjustified invasion of the personal privacy of that person or of any other individual. All members of the University community must respect the confidential nature of the student information which they acquire in the course of their work.

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I. Statement of Students' Academic Responsibilities

Your success as a student depends above all on your own response to the opportunities and responsibilities that the university environment provides. The University of Guelph is committed to supporting you in your intellectual development and responding to your individual needs. To this end, a broad network of advising, counselling, and support services is provided to assist you in meeting your personal and academic goals. At the same time, we recognize that, as a student here, you are responsible for:

• knowing the University's Learning Objectives (Section II);
• familiarizing yourself with the Undergraduate Degree Regulations & Procedures (Section VIII) and understanding grading procedures and continuation of study regulations;
• selecting a program of study to meet both degree and specialization requirements (Section X--Degree Programs) and carefully reviewing the personalized Program/Academic Evaluation (available on WebAdvisor), which lists the degree requirements you have completed and those still outstanding;
• contacting your program counsellor or faculty advisor for appropriate approvals, for clarification of the University's rules and regulations, or for guidance in forming your educational goals and making academic plans. The name and location of your program counsellor (e.g. B.A. program counsellor) is listed in Section VII--Academic Advising. Once you have declared a specialization, a faculty advisor (e.g. psychology advisor) will be available to assist you;
• attending first class meetings, obtaining course outlines, and meeting the course requirements as specified;
• familiarizing yourself with the Schedule of Dates (Section III) with particular attention to deadlines;
• referring to the procedures for Academic Consideration (Section VIII--Undergraduate Degree Regulations & Procedures) and initiating action by consulting your program counsellor if extenuating circumstances affect your academic performance;
• understanding what constitutes Academic Misconduct (Section VIII--Undergraduate Degree Regulations & Procedures) and abiding by the University's policy;
• adhering to any rules of conduct including those relating to health and safety provided by an instructor or assistant, either on a course outline or in a class, laboratory or seminar;
• checking your assigned University of Guelph WEBmail account regularly for important communications. This account is the primary conduit by which the University will notify you of events, deadlines, announcements concerning grades, student financial accounts and other official information.

To achieve your full potential within the University environment, you are encouraged to take advantage of the numerous extra-curricular opportunities provided by the University, balancing them with your academic commitments.
II. The University

History
The University of Guelph was established in 1964 when its founding colleges - the Ontario Agricultural College, the Ontario Veterinary College and Macdonald Institute - joined with a new college of arts and science. Today, the University of Guelph comprises seven colleges - College of Arts, College of Biological Science, College of Management and Economics, College of Physical and Engineering Science, College of Social and Applied Human Sciences, the Ontario Agricultural College, and the Ontario Veterinary College. In addition, the University has three regional campuses at Alfred, Kemptville and Ridgeway.

The University of Guelph is renowned in Canada and around the world as a research-intensive and learner-centred institution and for its commitment to open learning, internationalism and collaboration.

Students may pursue more than 80 undergraduate and 45 graduate degree programs spanning the natural and physical sciences, social sciences and humanities. Faculty at the University of Guelph have won more prestigious 3M Fellows teaching awards than faculty at any comparably-sized university in Canada. Our students are no less accomplished: 99.3 percent of first-year students enter with an average of at least 75 percent.

A total of 18,667 students attend Guelph, consisting of 16,617 full- and part-time undergraduates and 2,050 full- and part-time graduate students. The University of Guelph is a highly residential community, with approximately 5,260 students living in campus residences. In addition, the University of Guelph-Humber serves 1,955 full- and part-time undergraduates.

With close to $145 million in annual research funding, the University of Guelph is one of the country’s top research institutions. Among its researchers, Guelph numbers 20 Fellows of the Royal Society of Canada. A 12-hectare research park adjacent to the campus is home to a growing number of research-intensive industries.

An enhanced partnership reached in 1997 between the University of Guelph and the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) relocated OMAFRA employees to an 86,000-square-foot research complex adjacent to campus, and made the University responsible for Ontario's agricultural colleges at Alfred, Kemptville and Ridgeway, the Horticultural Research Institute of Ontario and OMAFRA's Laboratory Services. With its enhanced partnership, its research park and the Guelph Food Technology Centre -- an independent laboratory on campus for food processing research and product development -- the University of Guelph is the hub of a rapidly growing cluster of agri-food education, research and laboratory services in Canada.

Guelph's commitment to internationalism is reflected in several ways. Guelph attracts about 700 international students from 100 countries and maintains 61 study abroad programs (56 exchange and five semester abroad) with 27 countries. About 500 University of Guelph students study abroad each year. The University of Guelph has 60 public- and private-sector partners in 30 countries, and participates in Canadian International Development Agency projects worth a total of $16.5 million around the world. The University offers more than 200 distance degree credit courses to more than 16,000 course enrolments. Our graduates are Guelph's ambassadors to the world with more than 90,000 alumni in 145 countries.

Academic Organization

- College of Arts
- College of Biological Science
- College of Management and Economics
- College of Physical and Engineering Science
- College of Social and Applied Human Sciences
- Ontario Agricultural College (including the regional campuses)
- Ontario Veterinary College
- University of Guelph-Humber

For a listing of Centres and Institutes associated with the University of Guelph, see http://www.uoguelph.ca/research/

University of Guelph-Humber

The University of Guelph-Humber is a joint venture developed by Humber College Institute of Technology and Advanced Learning and the University of Guelph, located in Toronto on Humber College Institute of Technology and Advanced Learning's North Campus, it offers a range of academic programs leading to a university honours degree and a college diploma in four years.

For more information about the University of Guelph-Humber, see the web site at http://www.guelphhumber.ca.

Learning Objectives

Arising from the Aims and Objectives Report, the following Objectives were approved by the Senate of the University in 1987:

1. Literacy
2. Numeracy
3. Sense of Historical Development

All disciplines have a history, an understanding of which contributes to an understanding of the place each has in contemporary society. No discipline is self-sufficient, and no discipline is autonomous. "Historical development" should not be narrowly construed to mean only the history of the discipline within its own limits, but efforts should be made to connect developments in the discipline to wider coeval social conditions. Students may thereby be endowed with a sense of the fundamental relativity of knowledge and understanding at any given time.

This objective comports also a sense of the continuity of change (and, indeed, of discontinuities), over time.

This objective may facilitate the acceptance, on the part of students, of intellectual ambiguity or uncertainty; such acceptance is a mark of depth of understanding.

4. Global Understanding

Global understanding may be associated with "Sense of Historical Development". It can be described as comprehension of the variety of political, religious, cultural, geographical, biological, environmental, and historical forces in the shaping of nature and the human condition. It conveys to the student an understanding of the ways in which specific cultural or geographical or other circumstances condition the differences between nations or peoples, and an understanding of the place of his or her discipline in the international setting. Global understanding may be enhanced by a sense of historical perspective, by breadth of understanding, and by independence of thought. In its turn it may itself contribute to these.

5. Moral Maturity

Moral maturity is marked by depth and consistency of moral judgment; by recognition that any moral judgment may be fallible; that moral judgment is complex, in that moral principles, if they are to be applied to a specific case, may need to be interpreted. Moral maturity is a requirement in the person who is to apply a body of knowledge or a skill to the solution of a problem, or to the understanding of a situation, if the knowledge is not to remain abstract and the skill potential unrealized.

Attainment of this objective is probably best realized by appropriate consideration of moral issues in context, as they arise in the course of study. In this way, a moral perspective may be shown to be inherently important to study of a body of material, and not merely something supplementary to it (guidelines for conducting ethical discussion in the classroom have been written by the Ethics Research Group in the Department of Philosophy).

Scope for demonstration of moral maturity can be provided in seminars and other assignments, if problems in the moral issues associated with a subject are set for consideration alongside problems in content and process.

6. Aesthetic Maturity

Aesthetic maturity may be described as a quality of the critical response to some object, natural or artificial, external to the self. Or it may be a process of creation and development of the self. In the former case, aesthetic maturity may be attained by a sufficient exposure, not necessarily in courses alone, to works of art (inclusive of music, literature, and drama) and to the critical traditions concerning them. Such maturity may also be directed at aesthetic valuing of features of the natural environment.

In the latter case, attainment of the quality will require an active involvement in the work of creation itself. A different order of aesthetic maturity may be attained by practice of that form of manipulation and recreation of the original object known as criticism (as distinct from appreciation).

Viewed this way, aesthetic maturity has a certain resemblance to both independence of thought and depth of understanding, in requiring an active creativity.

Aesthetic maturity need not be divorced from the specific character of individual disciplines. By possession and exercise of aesthetic maturity, students may be brought to appreciate the order, elegance, and harmony not only of the subject matter, but also of the procedures, of the discipline.

7. Understanding of Forms of Inquiry

Inquiry, the search for truth, information, knowledge and understanding, follows a methodology based upon systematic study, reflection, intuition and innate creativity. Inquiry involves resolving an identified problem, collecting relevant information, evaluating the information and observing relationships in order to reach a conclusion. The student is the active inquirer and must be able to undertake the process independently. Scientific method represents a form of inquiry concerned with hypotheses development, data collection, analyses and interpretation. Just as an understanding of scientific inquiry is necessary for the educated citizen functioning in the midst of the technologies of the contemporary world, so too an appreciation of other modes of inquiry is an essential characteristic of an educated citizen. Graduates should be familiar with the modes of inquiry utilized, for example, by historians, by philosophers and by scholars concerned with the various fields of creative expression.
In courses of formal instruction, the use of team teaching might help to encourage a student's own love of learning, especially if members of the teaching team take an appropriate role as "students", and if true dialogue is developed between the teachers.

Mission Statement

The University of Guelph is a research-intensive, learner-centred university. Its core value is the pursuit of truth. Its aim is to serve society and to enhance the quality of life through scholarship. Both in its research and in its teaching programs, the University is committed to a global perspective.

The University offers a wide range of excellent programs, both in theoretical and applied, disciplinary and interdisciplinary, undergraduate and graduate, in the arts, humanities, social sciences, natural sciences, as well as professional fields. Among these, it recognizes agriculture and veterinary medicine as areas of special responsibility.

The University attracts students, faculty, and staff of the highest quality. It is animated by a spirit of free and open enquiry, collaboration, and mutual respect. It asserts the fundamental equality of all human beings and is committed to creating for all members of its community, an environment that is hospitable, safe, supportive, equitable, pleasurable, and above all, intellectually challenging.

The University of Guelph is determined to put the learner at the centre of all it does, recognizing that research and teaching are intimately linked and that learning is a life-long commitment. The University eagerly promotes collaboration among undergraduates, graduate students, faculty, staff, and alumni, as well as with our local and international community, other educational institutions, government and business.

The University of Guelph is committed to the highest standards of pedagogy, to the education and well-being of the whole person, to meeting the needs of all learners in a purposefully diverse community, to the pursuit of its articulated learning objectives, to rigorous self-assessment, critical inquiry, and active learning. The University of Guelph educates students for life and work in a rapidly changing world.

The University of Guelph invites public scrutiny of the fulfillment of its mission, especially by the people of Ontario, to whom it is accountable.

University Governance

In accordance with the University of Guelph Act (1964), the University operates under a bicameral system of governance comprising the Senate and the Board of Governors. The Senate is responsible for the academic policy of the University which includes responsibility for determining the courses of study, standards of admission and qualifications for graduation. The Board of Governors is responsible for all other aspects of the governance of the University not assigned to the Senate. This includes oversight of the management and control of the University and its property, revenues, expenditures, business and related affairs. The Board of Governors is responsible for the operation of the Board of Trustees of the University of Guelph Heritage Fund.

The University Secretariat has responsibility for supporting the efficient and timely operation of the Board of Governors, Board of Trustees, and the Senate plus their several committees, subcommittees, task forces and working groups which comprise the bicameral governance system of the University of Guelph.

The University Secretary also serves the role of University coordinator for the purposes of complying with Ontario's Freedom of Information and Protection of Privacy Act. In this role, the University Secretary serves the entire University community and, where appropriate, groups outside the University with the provision of timely, accurate and objective information, advice and the interpretation and application of the University's policies and procedures with regard to protection of personal privacy and access to information.

For information on the Board of Governors and the Senate, visit the University Secretariat website at http://www.uoguelph.ca/secretariat/.
### III. Schedule of Dates

The dates for the 2012-2013 academic year are listed by semester below as follows:
- **Summer Semester 2012**
- **Fall Semester 2012**
- **Winter Semester 2013**

#### Summer Semester 2012 (12 Week Format)

- **Monday, April 23**
  - Last day to submit Requests for Academic Consideration - 3rd meeting
- **Tuesday, May 1**
  - Last day for applications for internal program transfer to Fall Semester 2012 for all programs except B.L.A. and D.V.M.
- **Wednesday, May 9**
  - Add period begins
- **Thursday, May 10**
  - Class commences
- **Friday, May 11**
  - Last day to submit Requests for Academic Consideration -- 1st meeting
  - Last day to submit co-op work performance evaluations for Winter Semester 2012
- **Wednesday, May 16**
  - Last day to submit co-op work semester reports for Winter Semester 2012
- **Friday, May 18**
  - Add period ends
  - Last day to drop two-semester courses (W12/S12)
  - Last day for clearance to graduate for Summer 2012 Convocation
- **Monday, May 21**
  - Holiday -- NO CLASSES SCHEDULED -- classes rescheduled to Thursday, August 2
- **Friday, May 25**
  - Kemptville Campus Convocation
- **Saturday, May 26**
  - Alfred Campus Convocation
- **Friday, June 1**
  - Ridgetown Campus Convocation
- **Monday, June 4**
  - Course selection period for Fall Semester 2012 begins -- In-course students
- **Thursday, June 7**
  - Last day to submit Requests for Academic Consideration -- 2nd meeting
- **Friday, June 8**
  - Course selection period for Fall Semester 2012 ends -- In-course students
- **Monday, June 11**
  - Summer 2012 Convocation
- **Tuesday, June 12**
  - Summer 2012 Convocation
- **Wednesday, June 13**
  - Summer 2012 Convocation
- **Thursday, June 14**
  - Summer 2012 Convocation
  - Deferred examinations for Winter 2012 courses commence
- **Friday, June 15**
  - Summer 2012 Convocation
  - Last day for applications to graduate for Fall 2012 Convocation without application late fee
- **Saturday, June 16**
  - Deferred examinations for Winter 2012 courses scheduled
- **Tuesday, June 19**
  - Deferred examinations for Winter 2012 courses conclude
- **Monday, July 2**
  - Holiday -- NO CLASSES SCHEDULED -- classes rescheduled to Friday, August 3
- **Friday, July 6**
  - Fourth class day -- Last day to drop one semester courses
  - Last day to apply to graduate at Fall 2012 Convocation
- **Thursday, August 2**
  - Classes rescheduled from Monday, May 21, Monday schedule in effect

#### Summer Session 2012 (6 Week Format)

- **Thursday, May 10**
  - Class commences
- **Monday, May 14**
  - Last day to add Summer Session courses
- **Monday, May 21**
  - Holiday -- NO COURSES SCHEDULED -- classes rescheduled to Thursday, June 21
- **Thursday, June 7**
  - Last day to drop Summer Session courses
- **Thursday, June 21**
  - Classes rescheduled from Monday, May 21, Monday schedule in effect
  - Classes conclude
- **Monday, June 25**
  - Examinations Commence
- **Friday, June 29**
  - Examinations conclude

#### Fall Semester 2012

- **Monday, August 20**
  - Add period for Fall Semester 2012 begins
  - Last day to submit Request for Academic Consideration -- 3rd meeting
- **Monday, September 3**
  - Holiday
- **Thursday, September 6**
  - Class commences
- **Friday, September 7**
  - Last day to submit Requests for Academic Consideration -- 1st meeting
  - Last day to submit co-op work performance evaluations for Summer 2012
- **Wednesday, September 12**
  - Last day to submit co-op work semester reports for Summer Semester 2012
- **Friday, September 14**
  - Add period ends
  - Last day to drop two-semester courses (S12/F12)
  - Last day for clearance to graduate for Fall 2012 Convocation
- **Wednesday, October 3**
  - Last day to submit Requests for Academic Consideration -- 2nd meeting
- **Monday, October 8**
  - Holiday -- NO CLASSES SCHEDULED -- classes rescheduled to Thursday, November 29
- **Tuesday, October 9**
  - Course selection period for Winter Semester 2013 begins -- In-course students
- **Friday, October 12**
  - Last day for applications to graduate at Winter 2013 Convocation without application late fee
- **Tuesday, October 16**
  - Deferred examinations for Summer 2012 courses commence
- **Saturday, October 20**
  - Fall 2012 Convocation
  - Deferred examinations for Summer 2012 courses conclude
- **Wednesday, October 31**
  - Course selection period for Winter Semester 2013 ends -- In-course students
Thursday, November 1
• Fortieth class day--Last day to drop one semester courses
• Last day to apply to graduate at Winter 2013 Convocation

Thursday, November 15
• Last day for external and internal applications for admission to Winter Semester 2013 for all programs with Winter entry

Thursday, November 29
• Classes rescheduled from Monday, October 8, Monday schedule in effect
• Classes conclude
• Last day for applications from in-course students for admission into the Co-op option of B.A. (Applied Math & Stats & Psychology), B.Sc.(Applied Math & Stats, Biochemistry, biological & Pharmaceutical Chemistry, Chemistry, Toxicology), B.Sc.(Env.) for Winter Semester 2013

Monday, December 3
• Examinations commence

Saturday, December 8
• Examinations scheduled

Monday, December 10
• Add period for Winter Semester 2013 begins

Friday, December 14
• Examinations conclude

Monday, December 17
• Last day to submit Requests for Academic Consideration--3rd meeting

D.V.M. Fall Semester 2012

Monday, September 3
• Holiday--NO CLASSES SCHEDULED (Phases 1, 2, 3)
• Summer rotations with case-care responsibilities continue (Phase 4)

Tuesday, September 4
• Classes commence (Phases 1, 2, 3)
• Rotations commence (Phase 4)

Monday, October 8
• Holiday--NO CLASSES SCHEDULED (Phases 1, 2, 3)
• Rotations with case-care responsibilities continue (Phase 4)

Friday, December 14
• Classes conclude (Phases 1, 2, 3)
• Rotations with case-care responsibilities continue (Phase 4)

Friday, December 21
• Rotation conclude (Phase 4)

Winter Semester 2013

Monday, December 10
• Add period for Winter Semester 2013 begins

Tuesday, January 1
• Last day for applications to D.V.M. for Fall 2013 (Canadian applicants)

Monday, January 7
• Class schedule commences

Tuesday, January 8
• Last day to submit co-op work performance evaluations for Fall Semester 2012

Friday, January 11
• Add period ends
• Last day to drop two-semester courses (F12/W13)
• Last day to submit co-op work semester reports for Fall Semester 2012
• Last day to submit Requests for Academic Consideration--1st meeting

Friday, January 18
• Last day for clearance to graduate at Winter 2013 Convocation

Friday, January 25
• Last day to apply for international exchange programs departing in Summer 2013, Fall 2013 or Winter 2014 without late application fee

Friday, February 1
• Last day to submit Request for Academic Consideration--2nd meeting

Monday, February 4
• Deferred examinations for Fall 2012 courses commence

Friday, February 8
• Last day for apply to graduate at Summer 2013 Convocation without application late fee
• Deferred examinations for Fall 2012 conclude

Monday, February 18
• Winter Break begins--NO CLASSES SCHEDULED THIS WEEK
• Holiday

Tuesday, February 19
• Winter 2013 Convocation

Wednesday, February 20
• Winter 2013 Convocation

Thursday, February 21
• Winter 2013 Convocation

Friday, February 22
• Winter Break ends
• Winter 2013 Convocation

Monday, February 25
• Classes resume

Friday, March 1
• Last day for external and internal applications for admission to Fall Semester 2013 for B.L.A.

Monday, March 4
• Course selection period for Summer Semester 2013 and Fall Semester 2013 begins--In-course students

Friday, March 8
• Fortieth class day--Last day to drop one semester courses
• Last day to apply to graduate at Summer 2013 Convocation

Friday, March 15
• Last day for external and internal applications for admission to Summer Semester 2013 for all programs with summer entry

Monday, March 25
• Course selection period for Summer Semester 2013 and Fall Semester 2013 ends-In-course students

Friday, March 29
• Holiday

Friday, April 5
• Classes conclude
• Last day for applications from in-course students for admission into the Co-op option of B.A. (Economics & Mathematical Economics), B.A.Sc., B.Comm., B.Comp., B.Eng., B.Sc. (Biological and Medical Physics, Chemical Physics, Food Science, Microbiology, Nanoscience, Physics) for Fall Semester 2013.

Monday, April 8
• Examinations begin

Saturday, April 13
• Examinations scheduled

Friday, April 19
• Examinations conclude

Monday, April 22
• Last day to submit Requests for Academic Consideration--3rd meeting

D.V.M. Winter Semester 2013

Monday, January 7
• Classes commence (Phases 1, 2, 3)
• Rotations commence (Phase 4)

Monday, February 18
• Winter Break begins--NO CLASSES SCHEDULED THIS WEEK (Phases 1, 2, 3)
• Rotations with case-care responsibilities continue this week (Phase 4)
• Holiday

Friday, February 22
• Winter Break ends (Phases 1, 2, 3)

Monday, February 25
• Classes resume (Phases 1, 2, 3)

Friday, March 29
• Holiday
• Rotations with case-care responsibilities continue (Phase 4)

Friday, April 5
• Classes conclude (Phases 1, 2, 3)

Monday, April 8
• Laboratory evaluations commence (Phases 1, 2, 3)

Friday, April 12
- Laboratory evaluations conclude (Phases 1, 2, 3)
- Rotation conclude (Phase 4)

**Monday, April 15**
- Final examinations commence (Phases 1, 2, 3)
- Summative examinations commence (Phase 4)

**Friday, April 19**
- Summative examinations conclude (Phase 4)

**Friday, April 26**
- Final examinations conclude (Phases 1, 2, 3)

**Monday, May 13**
- Externship begins (Phase 4)
IV. Admission Information

Admission Requirements to University Programs in 2012

Semester One Admission

Entry Point

Admission to Semester One of a degree program and General Studies is available in the Fall semester only. A Semester One degree applicant is defined as one who will receive fewer than 2.00 transfer credits upon admission.

1. Applicants from Ontario Secondary Schools

Students seeking admission to a degree program must present the Ontario Secondary School Diploma (OSSD), or equivalent, and a minimum of six 4 U/M courses including ENG4U. All specific subject requirements must be 4 U/M. Specific subject requirements for admission to the various degree programs are outlined in this section. Students are also advised to consult Section X of the Calendar (Undergraduate Degree Programs) to note those subjects which are recommended for specific programs.

In some cases, applicants with high academic standing may be admitted if they are deficient in one of the specific subject requirements. The exceptions to this are Cooperative Education, Bachelor of Arts, Studio Arts and Criminal Justice and Public Policy, Bachelor of Science, Bio-medical Science, Bachelor of Applied Science, Applied Human Nutrition, and the Bachelor of Commerce Program for which applicants must have completed all of the specific subject requirements.

Offers of Admission will be released starting in February. All offers of admission which are based on interim grades will be conditional upon completion of the OSSD with six 4 U/M courses (or equivalent) including specific subject requirements. The minimum final admission average which the applicant will have to achieve will be stipulated in the condition. Conditions specified in the offer letter. Grades in specific subject requirements are included in the calculation of the admission average. The University reserves the right to revoke the offer of admission should a student fail to meet any condition in the offer.

Applicants also have the opportunity to complete and submit the Student Profile Form through the University of Guelph's online application system. The form is considered after the third round of high school offers in May. Leadership and citizenship qualities as well as extenuating circumstances of a medical or compassionate nature are considered for applicants whose admission average falls within a discretionary range below the determined program admission average.

Students will not be required to respond to the offer until the common response date for all Ontario universities. Those wishing to respond earlier may do so.

Applicants who have not received an offer of admission by the end of May may become eligible for admission consideration to all non-optional enrolment programs by submitting their final grades. Admission consideration will be given on the basis of final grades only when places are still available in the program and/or specialization to which the student has applied at the time that the final grades are received. Applicants may be required to possess an admission average higher than those used prior to the end of May.

It is the applicant’s responsibility to submit final, summer school or correspondence course grades to Admission Services, Level 3, University Centre, University of Guelph, Guelph, Ontario, N1G 2W1, as soon as they become available. The following methods for submission of final grades will be acceptable:

a. report card issued by the secondary school
b. certified copy of the report card
c. a transcript of marks issued by the secondary school and forwarded directly to the University.

It is suggested that students follow method c) above in order to facilitate the processing of their application. Any offers based on faxed information are conditional upon receipt of the official document.

International Baccalaureate

Students applying for admission on the basis of the IB Diploma should possess a minimum score of 28. Bonus points may be taken into consideration. Applicants are advised that most programs will require a higher score for admission consideration. Students currently in their final year of the IB program are encouraged to present “predicted” scores on the seven point scale, which will be taken into consideration to extend conditional offers of admission. The predicted scores can include grades from the Extended Essay and the Theory of Knowledge. Students must include, among their higher and standard levels, the specific subject requirements for the program to which they are applying. Unspecified transfer credits, to a maximum of 2.00 credits, will be granted for grades of 5 or better on higher level courses where the applicant has been awarded the IB Diploma. Students may request specific credit on an individual basis. Unspecified transfer credits, to a maximum of 2.00 credits, will be granted for grades of 5 or better on higher level courses where the applicant has been awarded the Certificate. Credit will be assigned upon receipt of official final results.

Ontario high school students registered in an IB program will automatically have their IB courses converted into Ontario U and M level equivalents. IB scores will be converted into grades on a percentage scale out of 100. Admissions and scholarships will be determined using the conversions submitted to the Ontario Universities Application Centre by the applicant’s high school.

The English Proficiency Requirement will be waived for applicants who have completed the Diploma where the language of instruction is English.

Advanced Placement

Applicants who have completed Advanced Placement courses with a minimum grade of 4 may be eligible to receive university credit to a maximum of 2.00 credits. The granting of credits and exemptions is at the discretion of the appropriate faculty, and will be based on official final results.

2. Applicants from Outside Ontario

Applicants whose preparation to enter the University has been completed outside the Ontario secondary school system must have achieved, as a minimum requirement, academic standing equivalent to that required of Ontario students and must satisfy the subject requirements for the program desired. Students should refer to the information for Ontario applicants regarding specific subject deficiencies. The University will take into consideration the availability of specific course requirements in other countries or provinces to ensure that the applicant is not disadvantaged if particular senior secondary courses are not offered. Please refer to the information following this section regarding specific subject requirements and equivalents.

Conditional offers of admission may be released on the basis of interim and/or first term grades. Some decisions may be deferred until final grades are submitted. Applicants are encouraged to submit any academic information which might expedite an admission decision by April 1. The condition of the offer will be applied as outlined for Ontario applicants.

a. Other Provinces and Territories of Canada - Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland and Labrador, Northwest Territories, Nova Scotia, Nunavut, Prince Edward Island, Saskatchewan, Yukon—Grade 12. Quebec—Senior High School Leaving Certificate or High School Leaving Certificate plus 12 academic credits from an appropriate CEGEP program. For further details, please visit Out of Province Admission Requirements.

b. United States of America - Students must have a minimum grade point average of 3.0 from an accredited high school. In addition, they must present a minimum combined SAT score of 1100 based upon the critical reading and math sections or ACT score of 24. Where class rankings are reported on the transcript, a ranking in the top quarter is preferred. Students should include, among their senior level courses, specific subjects that are required for admission to the degree program of their choice. Particular attention is paid to performance in program prerequisites.

c. British Patterned Education Systems - Applicants must present either the GCSE (or IGCSE) and the GCE showing one of:

i. Minimum of two Advanced level passes and three GCSE or IGCSE (Ordinary level) passes.

ii. Two Advanced Supplementary (AS) level courses may be substituted for one Advanced level course.

iii. Applicants who have completed GCE Advanced level examinations with a minimum grade of C may be eligible to receive a maximum of 3.00 unspecified credits (1.00 credit per course). Students may request specific credit on an individual basis.

d. Other Countries - The secondary school graduation certificate which admits to an internationally recognized university in another country is normally acceptable, provided that it is the equivalent of admission requirements for the University of Guelph.

NOTE: Possession of these minimum requirements does not guarantee admission. Required levels of academic preparation may vary according to the jurisdiction or country in which course work was completed. Applicants are encouraged to contact Admission Services prior to formal application in order to obtain specific information on admission requirements. They are strongly advised to provide detailed information on their particular situation.

3. Applicants for Admission as Mature Students

Statement of the Regulation

Applicants who do not possess the published minimum requirements for admission consideration may be considered for admission to degree programs as space permits and if, prior to the beginning of the Fall semester, they

a. will have been out of secondary school for at least two years.

b. will have normally not attended another post-secondary institution.

c. have completed their secondary school diploma

In addition, applicants must meet specific subject requirements or equivalents as outlined below for the degree programs to which they have applied. Admission as a Mature Student is available in the Fall semester only.

2012-2013 Undergraduate Calendar Last Revision: Oct. 19, 2012
B.A. Program
Students who meet the requirements to be considered for admission as mature applicants must have acceptable standing as follows:

- ENG4U and two additional 4U or 4M courses, one of which must contain a writing component.

B.A.S., B.Sc., B.Sc. (Ag.), B.Eng., B.Sc. (Env.), and B.A.Sc. Programs
Applicants for any of these programs who satisfy conditions a) and b) outlined in the "Statement of the Regulation" and wish to be considered for admission under the Mature Student Regulation must have obtained standing in the specific 4U subjects or equivalent which are required of regular applicants for these programs.

Applicants for B.Comp. or B.L.A. who wish to be considered for admission under the Mature Student Regulation should contact Admission Services for specific admission requirements.

B.B.R.M. Program
Applicants who satisfy conditions a) and b) outlined in the "Statement of Regulations" and wish to be considered for admission under the Mature Student Regulation must have obtained standing as follows:

- ENG4U SB14U, and one additional 4U/M course.

B.Comm. Program
Students who meet the requirements to be considered for admission as mature applicants must have acceptable standing as follows:

- (TMGT, HAFA, PMGT): ENG4U, MHF4U, and one additional 4U/M course.
- (ACCT, FAB, HRM, MEF, MKMN, REH): ENG4U, MHF4U and one additional 4U Mathematics course.

Applicants will be required to submit a letter, for consideration by the Admissions Committee, in which they outline their academic goals.

General Notes and Recommendations
The minimum average required for admission consideration will normally be that required for regular admission from secondary school. Students applying under the Mature Student Regulation must submit official transcripts of any previous post-secondary work undertaken and are encouraged to write a letter explaining their activities since their last academic semester. This academic record will be considered by the Admissions Committee in reaching an admission decision.

General Studies
The objective of General Studies is to provide students who do not meet the normal University admission criteria the opportunity to take university courses before registering in a specific degree program or to take university courses for continued learning with no immediate intention of registering in a degree program. All applicants must be Canadian citizens or Permanent Residents. Applicants will normally:

- a. not have previously registered at a university
- b. have completed the O.S.S.D. or equivalent and
- c. have been out of secondary school for 3 years.

Applicants must submit a General Studies Profile Form which will provide their intended study objectives, including courses and program. The University, via the General Studies Admission Committee, reserves the right to grant or deny admission to a candidate based on the appropriateness of the applicant's submissions.

Applicants to the General Studies program who wish to transfer to a degree program in the future should contact Admission Services, Office of Registrarial Services for specific internal transfer admission requirements. These requirements may vary with the degree program for which transfer is sought.

Application to General Studies in the first instance is for part-time study only and available for Fall entry point only. As such, students may take a maximum of 1.50 credits in the first semester. In special circumstances, permission to study full-time may be granted by the Program Counsellor. Normally, successful completion (minimum 60% cumulative average) of 1.50 credits is required before full-time study in General Studies can be undertaken.

Advanced Standing Admission
1. Advanced Standing Applicants from a recognized University or College in Canada
Applicants for admission to the University of Guelph transferring from an accredited university or college are normally subject to the following admission policy.

a. Applicants must have completed the Ontario Secondary School Diploma including six 4 U/M courses, or equivalent, for admission to the University of Guelph prior to the commencement of the academic session for which application is made.

b. Applicants must be eligible for readmission and registration on a full-time basis at the last university or college attended in the academic session for which application is made. Applicants whose academic records at another university have rendered them ineligible to continue study at that institution will be considered for admission only when the stipulated period of rustication has expired.

c. Students registered in a preliminary year, bridging year or first year at a recognized university or junior college to which students are admitted without having completed the Ontario Secondary School Diploma or the equivalent are eligible to apply for admission to first year at this University provided that their first or preliminary year program includes subjects equivalent to those 4U or 4M courses required for admission to each program. Credit towards graduation from the University of Guelph is not normally granted for work taken in the first year of the university program which does not require completion of the Ontario Secondary School Diploma or equivalent for admission.

d. Admission of students transferring from another university or college is not automatic. All such applicants will be assessed in competition with other new applicants, taking into consideration the academic requirements and enrolment limitations which pertain at the time the application is complete. In addition, an offer of admission will not imply in any way that space will be available in the course(s) in which the applicant wishes to register.

e. The University of Guelph subscribes to the following General Policy on the Transfer of Course Credits, as adopted by the Council of Ontario Universities: Acceptance of transfer credits among Ontario Universities shall be based on the recognition that, while learning experiences may differ in a variety of ways, their substance may be essentially equivalent in terms of their content and rigour. Upon admission, and insofar as possible, acceptance of transfer credit should allow for the maximum recognition of previous learning experience in passed university-level courses.

Subject to the degree and specialization to which the applicant is admitted, and to grade and program requirements, any course offered for credit by another Ontario university shall be accepted for credit when there is an essential equivalency in course content.

f. In addition, the University of Guelph supports the intent of the Pan-Canadian Protocol on the Transferability of University Credits to develop consistent, fair and efficient systems to facilitate student mobility and program completion. In consideration of the principles of the Protocol, the University of Guelph undertakes to ensure that all course work completed by transfer students in the first two years of university study in Canada (including the final year leading to a diploma of college studies (DCS) in Quebec and the transfer courses offered by community colleges in British Columbia and Alberta) are recognized and, subject to degree, grade and program requirements are credited for the purpose of granting a degree provided that:

i. the applicant is deemed admissible and has been offered admission

ii. a passing grade has been achieved in each course to be transferred and the grade is at the level that normally would be required of students at the University of Guelph

iii. the credits earned are related to the program of study in which the transfer student will register, or the credits can be counted as electives in the program of study.

g. Candidates from non-Ontario universities or colleges applying for advanced standing may submit, with the application, detailed course descriptions, or a calendar of the institution at which they studied. The provision of such information will greatly facilitate the evaluation of previous work and the consideration of possible transfer of credits. The amount of transfer credit granted is at the discretion of the Registrar and the Dean of the College concerned.

Note: Where necessary, the grades from other universities or colleges whose marking schemes differ from those of this University shall be translated into the equivalent grades of the University of Guelph and admissibility assessed in those terms. Applicants for transfer, for whom English is a second language, must submit with their application, evidence acceptable to this University of Proficiency in English (see English Proficiency in this section of the calendar).

h. Applicants who have been required to withdraw from the University of Guelph or another post-secondary institution and who pass university credit courses during the period of rustication, may be eligible for 1.00 credit provided the criteria for admission or readmission and transfer of credit are met. If university credit courses are successfully completed after the rustication period, transfer credit may be granted for all courses provided the criteria for admission or readmission and transfer of credit are met. Applicants who have been debarred for academic misconduct will not receive credit for courses taken during the period of debarment.

i. Applicants should contact Admission Services regarding specific transfer credit.

The application of these transfer credits will vary depending on the degree and specialization. The applicant must satisfy degree graduation requirements and residency requirements as outlined in Section VIII—Undergraduate Degree Regulations and Procedures.

Specific graduation requirements will be determined in consultation with the program counsellor and departmental advisor.

Applicants will typically be informed of the amount of advanced standing credit granted when they receive the offer of admission. Acceptance by the student of the offer of admission shall imply the student's agreement to the advanced standing credit granted.
2. Applicants from Universities Outside of Canada

The amount of credit granted will be dependent upon the institution and upon the educational system. Admission Services at the University of Guelph does not grant advanced standing for work experience or for involvement in programs such as the World Youth Organization. Please refer to Section VII - Undergraduate Degree Regulations and Procedures for information on Prior Learning Assessment.

3. Advanced Standing Applications from Recognized Community Colleges or Other Post-Secondary Institutions

The University of Guelph will also consider the granting of advanced standing for studies completed in certain post-secondary institutions. Included in this category are:

a. Colleges of Applied Arts and Technology, and Institutes of Technology and Advanced Learning

Graduates from appropriate programs may be considered for admission with advanced standing in accordance with the following policy:

i. Transfer credits are determined by the Admissions Committee of the program to which the student is admitted, and in accordance with any existing articulation agreement with the institution in question. Please refer to the information at the beginning of Section IV on Articulation Agreements.

ii. Transfer credits will be based on courses completed with a grade of 'B' or better, where those courses are deemed appropriate to the program to which the student is admitted at this University. A minimum overall average of B is required in diploma programs for consideration of any transfer credit.

iii. Up to 7.50 credits may be granted to students from a completed three-year diploma program, and up to 3.00 credits may be granted to students from a completed two-year diploma program. The granting of additional transfer credits will be considered in the case of graduates from a one-year post-diploma program.

iv. Should a student transfer to a different program after admission to the University of Guelph, credits assigned upon admission may be re-assessed where deemed appropriate by the Admission Committee of the program.

b. Colleges of Agricultural Technology

Graduates of the two-year Associate Diploma programs or other two-year programs offered by the Colleges of Agricultural Technology may receive a maximum of 3.00 transfer credits upon admission to a degree program. Graduates admitted to the Bachelor of Science in Agriculture program, Bachelor of Bio-Resource Management program, and Bachelor of Commerce, Food and Agricultural Business program may be eligible for additional transfer credit. A minimum overall average of 70% is required in the Associate Diploma Program(s) for consideration of any transfer credit.

4. CEGEPs - Province of Quebec

a. Applicants who present the Diplôme des Études Collégiales may be eligible for advanced standing, to a maximum of 5.00 credits.

b. For more specific information candidates may contact Admission Services, Office of Registrarial Services, University of Guelph.

Advanced Standing Entry Points

All undergraduate programs consider students applying from another post-secondary institution as advanced standing applicants to the Fall entry point. Winter and Summer entry to select programs is available. Applicants are considered as 'Advanced Standing' if they will receive 2.00 or more transfer credits upon admission. Applicants to the University are requested, where possible, to indicate on the Ontario Universities' Application Centre form their subject of primary interest. In many cases the program code to be inserted on the application form will include the subject of primary interest. It should be noted that an offer of admission applies to both the degree program and to the major area of study specified in the offer.

Because enrolment in certain courses is limited by the availability of resources, the University cannot guarantee that all students wishing to take a particular specialization will be accommodated. Applicants wishing to enrol in courses offered in the distance only mode for personal interest or for professional development should contact the Centre for Open Learning and Educational Support for further information and to obtain the appropriate application form.

Application Procedures

Current Diploma application procedures are outlined in the Diploma Program Calendar. Doctor of Veterinary Medicine procedures are outlined in the previous section "Admission Requirements". All procedures are applicable to both full and part-time applicants. Applicants for part-time study are considered on the same basis as full-time applicants, and therefore must meet the published admission requirements for the program desired.

Students applying from outside Canada are strongly advised to begin the application process six to eight months prior to the proposed entry point. Those applying for admission to the Fall semester should have their application, along with all required documentation, in Admission Services no later than March 1 in order to ensure a timely decision. There are two application options:

1. International applicants (including U.S. citizens) applying to the main campus who do not intend to apply to another university within Ontario should complete the University of Guelph International Application form. This form is only available from Admission Services at https://admission.uoguelph.ca/template.aspx?SiteID=117b492b-96f1-4399-8e2c-6b618b60228d.

2. Applicants who wish to apply to more than one university within Ontario should apply via the Ontario Universities' Application Centre, 105 application form http://www.ouac.on.ca/105/. All documents should be sent directly to Admission Services.

Applicants who wish to check on the status of their application or to verify that all required documentation has been received may contact us by emailing intapps@registrar.uoguelph.ca. Applicants should not direct questions about the possibility of admission to this address. Please refer to previous sections on Applicants from Outside Ontario and Applicants from Universities Outside of Canada for general information on admission requirements. The Admission Committees, upon receipt of a completed application form and all pertinent documentation, will make specific admission assessments for individual applicants.

Applying From Another Campus of the University of Guelph

Applicants from Alfred, Kemptville, and Ridgetown Campuses should contact their campus registrar's office for the appropriate application process. Applicants wishing to transfer from the University of Guelph-Humber to the University of Guelph should follow the process outlined at http://admission.uoguelph.ca/transfer.
Applying For Internal Transfer or Readmission
University of Guelph students wishing to apply to another program within the University or for readmission should complete the Internal Transfer Application form which is available from the University of Guelph web site at http://admission.uoguelph.ca/internal.

Amendments to the Application Form
A student who has applied via the Ontario Universities' Application Centre (OUAC) may verify their program selections and biographical information via the OUAC web site. Students wishing to revise their application should do so by accessing their on line OUAC account. If any are made, the University of Guelph will be notified of the applicable changes approximately 2-3 business days after OUAC receives the amendment. Although all amendments are important to the processing of each application, changes to academic program choice, residence status, surname, mailing and home addresses are of significant importance and should be reported via their OUAC account process as soon as the situation arises. Amendments must be completed by the published application deadline dates.

Students who have applied on a University of Guelph application form as opposed to an OUAC application form must notify Admission Services, in writing, of any biographical or academic status changes, using the Amendment form available online or at Admission Services.

Articulation Agreements
An articulation agreement is a contract between institutions of higher learning that allow students who have completed a specific program at one institution to be considered for admission and assigned advanced standing credits in a specific program at another institution post-admission to the second program. Information about all agreements between all institutions in Ontario can be accessed through the College-University Consortium Council's Ontario College-University Transfer Guide (OCUTG).

Alfred Campus

Bachelor of Commerce, Major Hotel & Food Administration
Graduates with a minimum grade point average of 3.3 (B+) from the two-year Food, Nutrition and Risk Management diploma program may apply to transfer to the Hotel and Food Administration major of the Bachelor of Commerce program. Applicants must have completed an 4U credit or equivalent in Mathematics and English. Upon admission, up to 6.00 advanced standing credits may be transferred. Interested students should contact the program counsellor for the Bachelor of Commerce program.

Algonquin College

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1858)
The articulation agreement between the University of Guelph and Algonquin College provides an opportunity for graduates from the two-year Hospitality Management - Hotel and Restaurant diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Bachelor of Commerce program with up to a maximum of 8.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Tourism Management (OCUTG # 1859)
The articulation agreement between the University of Guelph and Algonquin College provides an opportunity for graduates from the two-year Tourism and Travel diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Tourism Management major of the Bachelor of Commerce program with up to a maximum of 8.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Associate Diploma programs - University of Guelph

Bachelor of Commerce, Major Food and Agricultural Business
Graduates of the Diploma in Agriculture program and the Diploma in Horticulture program may transfer to the Bachelor of Commerce program provided they have achieved a cumulative average of 70% or higher in the Diploma program. In addition, Diploma students must have completed the 4U admission requirements, or equivalent, for admission to the Bachelor of Commerce program. To receive specific advanced standing degree credits, a minimum B (70%) standing is required in each diploma course. Students are eligible to receive a maximum of 4.00 credits. Diploma students may also obtain credit for any passed degree courses which they completed as Diploma students. Applicants should contact the program counsellor for the Bachelor of Commerce program for information regarding transfer credit.

Bachelor of Science in Agriculture
Graduates of the Diploma in Agriculture program and the Diploma in Horticulture program may transfer to the Bachelor of Science in Agriculture program provided they have achieved a cumulative 70% or higher in the Diploma program. To receive degree credit, a student must have a minimum "B" standing (70%) in the diploma course(s) specified.

Canadore College

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1860)
The articulation agreement between the University of Guelph and Canadore College provides an opportunity for graduates from the two-year Hotel, Resort & Restaurant Management diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 8.50 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce - Major Hotel and Food Administration (OCUTG # 1862)
The articulation agreement between the University of Guelph and Canadore College provides an opportunity for graduates from the three-year Food & Nutrition Management diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 11.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1863)
The articulation agreement between the University of Guelph and Canadore College provides an opportunity for graduates from the three-year Food & Nutrition Administration diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 10.50 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Centennial College

Bachelor of Commerce - Major Hotel and Food Administration (OCUTG # 1883)
The articulation agreement between the University of Guelph and Centennial College provides an opportunity for graduates from the three-year Hospitality & Tourism Administration diploma program with a minimum 3.3 (B+) grade point average to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 11.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Marketing Management
An articulation agreement between the Bachelor of Commerce program at the University of Guelph and the Co-op Marketing Diploma at Centennial College facilitates the transfer of students between the two institutions. Students are provided with the opportunity to complete the degree at the University of Guelph and the diploma from Centennial College. Applicants transferring from the College may begin their studies at the University commencing in the Winter semester, in the second year of the Marketing Management major. Interested students should direct their enquiries to the program counsellor for the Bachelor of Commerce program.
Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1884)
The articulation agreement between the University of Guelph and Centennial College provides an opportunity for graduates from the two-year Hospitality Management - Hotel & Resort diploma program with a minimum 3.3 (B+) grade point average to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 7.50 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1885)
The articulation agreement between the University of Guelph and Centennial College provides an opportunity for graduates from the two-year Hospitality Management - Food & Beverage diploma program with a minimum 3.3 (B+) grade point average to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 7.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Tourism Management (OCUTG # 1886)
The articulation agreement between the University of Guelph and Centennial College provides an opportunity for graduates from the two-year Tourism Management - Culture and Heritage Tourism diploma program with a minimum 3.3 (B+) grade point average to be considered for admission to the Tourism Management major of the Bachelor of Commerce program with up to a maximum of 6.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Conestoga College Institute of Technology and Advanced Learning

Bachelor of Arts
Applicants who are not admitted to the BA Program may be invited to take a stream of General Arts and Sciences at Conestoga College Institute of Technology and Advanced Learning. This stream is intended for students who wish to attend university. Students are eligible for admission into the B.A. Program at the University of Guelph if they meet the following conditions:

1. successful completion of the General Arts and Sciences Program with a minimum cumulative average of 70%
2. a minimum grade of 70% in each of the courses to be transferred as university credits

Bachelor of Commerce - Food and Agricultural Business, Real Estate and Housing, Management Economics and Finance, Marketing Management
The University of Guelph will make up to three spaces available annually in the above programs to qualified graduates from the following programs at Conestoga College Institute of Technology and Advanced Learning: Business Administration - Marketing, Management Studies, Accounting; General Business; Food and Beverage Management; Computer programmer/Analyst. Applicants to the degree program must have completed an 4U credit or equivalent in English and Advanced Functions.

Bachelor of Applied Science, Major Child, Youth & Family (OCUTG # 1734)
A total of ten places for the Child, Youth and Family major, will be made available annually for graduates from the Conestoga two-year Diploma Program in Early Childhood Education, together with applicants from any other such articulated College ECE programs, and who have:

- An ECE diploma with a graduating average of B (equivalent) or better
- Not less than ten academic courses (exclusive of field-placement courses) with a final course grade of A (equivalent)
- A 4U credit in Mathematics and one in 4U Biology

Bachelor of Landscape Architecture
Prospective applicants should contact the Bachelor of Landscape Architecture program counsellor for further information.

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1857)
The articulation agreement between the University of Guelph and Conestoga College provides an opportunity for graduates from the two-year Hospitality Management (Food and Beverage) Co-op Diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 8.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Fanshawe College

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1864)
The articulation agreement between the University of Guelph and Fanshawe College provides an opportunity for graduates from the three-year Hospitality Administration – Hotel & Resort diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 11.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1865)
The articulation agreement between the University of Guelph and Georgian College provides an opportunity for graduates from the three-year Hospitality Administration – Hotel & Resort diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 7.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1866)
The articulation agreement between the University of Guelph and Georgian College provides an opportunity for graduates from the three-year Hospitality Administration – Hotel & Resort diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 7.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Tourism Management (OCUTG # 1867)
The articulation agreement between the University of Guelph and Georgian College provides an opportunity for graduates from the three-year Tourism Management Diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Tourism Management major of the Bachelor of Commerce program with up to a maximum of 8.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.
Bachelor of Commerce, Major Tourism Management (OCUTG # 1870)
The articulation agreement between the University of Guelph and Georgian College provides an opportunity for graduates from the two-year Tourism and Travel diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Tourism Management major of the Bachelor of Commerce program with up to a maximum of 9.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Tourism Management (OCUTG # 1871)
The articulation agreement between the University of Guelph and Georgian College provides an opportunity for graduates from the two-year Ski Resort Operations diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Tourism Management major of the Bachelor of Commerce program with up to a maximum of 4.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Humber College Institute of Technology and Advanced Learning
Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1872)
The articulation agreement between the University of Guelph and Humber College Institute of Technology & Advanced Learning provides an opportunity for graduates from the two-year Hotel and Restaurant Management Diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 8.50 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1873)
The University of Guelph and Humber College Institute of Technology & Advanced Learning have signed an articulation agreement which allows students graduating from the two-year Tourism and Hospitality Management -- Business Applications diploma program with a minimum grade point average of 3.3 (B+) and who have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent) to be considered for admission to the Bachelor of Commerce program with up to a maximum of 6.50 advanced standing credits. Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1874)
The University of Guelph and Humber College Institute of Technology & Advanced Learning have signed an articulation agreement which allows students graduating from both the two-year Hotel and Restaurant Management and the one-year Tourism and Hospitality Administration -- Advanced diploma programs with a minimum grade point average of 3.3 (B+) and who have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent) to be considered for admission to the Bachelor of Commerce program with up to a maximum of 11.00 advanced standing credits. Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1875)
The University of Guelph and Humber College Institute of Technology & Advanced Learning have signed an articulation agreement which allows students graduating from both the two-year Tourism and Hospitality Management -- Business Applications and the one-year Tourism and Hospitality Administration -- Advanced diploma programs with a minimum grade point average of 3.3 (B+) and who have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent) to be considered for admission to the Bachelor of Commerce program with up to a maximum of 9.00 advanced standing credits. Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Tourism Management (OCUTG # 1876)
The University of Guelph and Humber College Institute of Technology & Advanced Learning have signed an articulation agreement which allows students graduating from the two-year Tourism Management -- Travel Industry Services diploma program with a minimum grade point average of 3.3 (B+) and who have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent) to be considered for admission to the Tourism Management major of the Bachelor of Commerce program with up to a maximum of 6.00 advanced standing credits. Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1877)
The University of Guelph and Humber College Institute of Technology & Advanced Learning have signed an articulation agreement which allows students graduating from both the two-year Tourism and Hospitality Management -- Travel Industry Services and the one-year Tourism and Hospitality Administration diploma programs with a minimum grade point average of 3.3 (B+) and who have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 8.50 advanced standing credits. Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Kemptville Campus
Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1879)
Graduates from the two-year Food and Nutrition Diploma program with a minimum grade point average of 3.0 (B+) may apply to transfer to the Hotel and Food Administration major of the Bachelor of Commerce program. Applicants must have completed an 4U Advanced Functions & Relations credit or equivalent in Mathematics and English. Upon admission up to 6.00 advanced standing credits may be transferred. Interested students should contact the program counsellor for the Bachelor of Commerce program.

Bachelor of Bio-Resource Management, Major Equine Management
Graduates of the Associate Diploma in Agriculture, Equine Option may apply to transfer into the Bachelor of Bio-resource Management program, Equine Management major provided they have achieved a cumulative 70% or higher in the diploma program. To receive degree credit, a student must have a minimum "B" standing (70%) in the diploma course(s) specified. For more information, please contact Admission Services at the main campus or the Registrar at the regional campus.

Niagara College
Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1879)
The University of Guelph and Niagara College Institute of Technology & Advanced Learning have signed an articulation agreement which allows students graduating from the two-year Hospitality Management -- Hotel & Restaurant diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 8.50 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1880)
The University of Guelph and Niagara College Institute of Technology & Advanced Learning have signed an articulation agreement which allows students graduating from the two-year Hospitality Management -- Hotel & Restaurant diploma and the one-year Hospitality and Tourism -- Management Systems diploma programs with a minimum 3.3 (B+) grade point average to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with up to a maximum of 11.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Tourism Management (OCUTG # 1881)
The University of Guelph and Niagara College Institute of Technology & Advanced Learning have signed an articulation agreement which allows students graduating from the two-year Tourism Management - Business Development diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Tourism Management major of the Bachelor of Commerce program with up to a maximum of 6.50 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.
Bachelor of Commerce, Major Tourism Management (OCUTG # 1882)
The University of Guelph and Niagara College Institute of Technology & Advanced Learning have signed an articulation agreement which allows students graduating from both the two-year Tourism Management - Business Development diploma and the one-year Hospitality and Tourism - Management Systems programs with a minimum 3.3 (B+) grade point average to be considered for admission to the Tourism Management major of the Bachelor of Commerce program with up to a maximum of 9.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Functions & Relations and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Northern Alberta Institute of Technology
Bachelor of Landscape Architecture
The articulation agreement between the University of Guelph and the Northern Alberta Institute of Technology (NAIT) will provide up to six places per year for graduates of the Landscape Architecture program at NAIT, with a minimum cumulative average of B (70%), to be considered for admission to the Bachelor of Landscape Architecture program at the University of Guelph. All applicants are required to submit a portfolio and a Background Information Form. Upon admission, students will receive 10.00 transfer credits. Prospective applicants should contact the Bachelor of Landscape Architecture program counsellor for further information.

Province of British Columbia
Bachelor of Commerce, Major Hotel & Food Administration
The University of Guelph will make available up to ten places annually for admission into the Hotel and Food Administration major of the Bachelor of Commerce program for graduates from the Province of British Columbia's two-year Hospitality Management Diploma programs at Camosun College, College of New Caledonia, University College of the Cariboo, Douglas College, Malaspina University College, North Island College, Okanagan University College, Selkirk College, and Vancouver Community College. Applicants must have a minimum 3.3 (B+) cumulative grade point average and must have completed an 4U or equivalent course in Mathematics and English. Upon admission, students will be granted up to 10.00 transfer credits on the basis of having completed all college core courses as well as specified electives. Interested students should contact the Bachelor of Commerce program counsellor for further information.

Sensoria College
Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1878)
The articulation agreement between the University of Guelph and Seneca College provides an opportunity for graduates from the Hospitality Option of the Tourism and Travel diploma program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Hotel and Food Administration major of the Bachelor of Commerce program with a 5.0 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12 (4U) Advanced Functions and English (or their equivalent). Interested students should contact the Program Counselling Office for the Bachelor of Commerce Program.

Bachelor of Commerce, Major Real Estate and Housing
The articulation agreement between the University of Guelph and Seneca College provides an opportunity for students graduating from the Real Property Administration Diploma Program with a minimum grade point average of 3.3 (B+) to be considered for admission to the Bachelor of Commerce, Real Estate and Housing major with a 5.0 advanced standing transfer credits. Applicants must have completed 12U English and Mathematics (or their equivalent i.e. some college level math and communications courses may be considered to fulfill this requirement.) Prospective applicants should contact the Bachelor of Commerce Program counsellor.

Communication of Admission Decisions
Admission Services will use the mailing address and/or email address supplied by the applicant to communicate decisions. Applicants using the OUAC 105 application form or the applications found on the University of Guelph website will receive their admission decision via WebAdvisor (access to this online tool will be made available once the application has been received). The University will not be held responsible for decisions sent to these addresses but not received. Applicants who are not currently in any secondary or post-secondary program can normally expect to receive an admission decision within a three to four week period following receipt of the application and all official documents by Admission Services, provided they have not applied to a limited enrolment program. Typically applicants for limited enrolment programs will be considered at the same time in competition for the spaces which are available. Students currently enrolled in a post-secondary program will normally be required to submit all official transcripts at the conclusion of their program before a final decision regarding their admission will be made. An applicant who submits an official post-secondary transcript at the conclusion of his/her fall semester of the current academic year may receive an early offer of admission. This offer of admission will be conditional upon successful completion of the student's current academic year and conditions specified by the Admission Committee for the degree program to which the student is admitted. Official final transcripts will be required by the University of Guelph, for Fall entry, by June 1 to confirm that the conditions of early offers of admission have been satisfied. Students will be advised via email that admission conditions have been cleared. Admission decisions for the D.V.M. Program will not be made until after the deadline date for receipt of applications and documentation.

Co-operative Education
Students will be considered for admission to semester one of the Co-operative Education program upon receipt of application and supporting academic documentation. Normally, an average of 80% is the minimum required for consideration, but higher averages may be required for admission to individual programs where the demand by qualified applicants exceeds the supply of spaces. All students, including International applicants, are encouraged to explore Co-operative Education as an option. Specific subject requirements for admission to the various degree programs are outlined in a following section. In some cases, applicants may be required to submit a Background Information Sheet in support of their application. If a Background Information Sheet is required, Admission Services will forward information directly to the applicant upon receipt of the application. Applicants who are refused admission to Co-operative Education will be considered for admission to the comparable regular degree program during the third round of secondary school offers of admission in mid-May. Please refer to Co-operative Education Programs in Section X for further information.
### Deadline Dates - Advanced Standing, Non-Degree and Limited Enrolment Programs

While the final dates for receipt of applications are listed on the chart below, applicants are advised to submit their applications well in advance of the proposed date of enrolment. The University of Guelph cannot guarantee that applicants submitting applications or supporting documentation after the deadlines will receive admission consideration for the Fall entry point due to space limitations which may exist within programs.

**Deadline Dates for Advanced Standing and Non-Degree Programs**

<table>
<thead>
<tr>
<th>Program &amp; Major Fall Semester</th>
<th>Application Deadline</th>
<th>Document Deadline</th>
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<tbody>
<tr>
<td>B.L.A.</td>
<td>March 1</td>
<td>May 1 - B.L.F.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>June 1 - Transcripts</td>
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<tr>
<td>D.V.M. - 2013</td>
<td>January 1</td>
<td>January 1 - MCAT Scores</td>
</tr>
<tr>
<td></td>
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<td>March 1 - B.L.F.</td>
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<tr>
<td></td>
<td></td>
<td>March 1 - References</td>
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<tr>
<td></td>
<td></td>
<td>March 1 - Transcripts</td>
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<tr>
<td></td>
<td></td>
<td>(A minimum of four full-time semesters (two full-time years) including D.V.M. admission course requirements must be completed before December 31, 2013)</td>
</tr>
<tr>
<td>International D.V.M.</td>
<td>December 1</td>
<td>February 1</td>
</tr>
<tr>
<td>DTM</td>
<td>January 15</td>
<td>February 15</td>
</tr>
<tr>
<td>All other programs and major areas of study</td>
<td>May 1</td>
<td>June 1</td>
</tr>
</tbody>
</table>

**ADMISSION CONSIDERATION CANNOT BE GUARANTEED FOR APPLICATIONS AND FOR DOCUMENTS RECEIVED AFTER THE DEADLINES DUE TO SPACE LIMITATIONS WHICH MAY EXIST WITHIN PROGRAMS.**

Some programs will consider applications for Winter and Summer entry. For a complete listing and applicable deadline dates, please visit [https://admission.uoguelph.ca/home.aspx](https://admission.uoguelph.ca/home.aspx)

### English Proficiency

Lectures, seminars and examinations in the University are, for the most part, conducted in English and it is essential that all students have a good knowledge of written and spoken English in order for them to be successful in their university studies. Applicants for admission will be required to present evidence of English proficiency:

1. **their primary or first language (meaning the language first learned as a child) is not English; and**
2. **they have had fewer than four years of full-time secondary or post-secondary study, demonstrating satisfactory academic progress, in an English-language school system.**

Francophone Canadian citizens educated in Canada will not be required to meet the English Language Proficiency Requirement. Students who have completed the International Baccalaureate diploma where English was the language of instruction will be considered as having met the English Proficiency Requirement. Students who successfully complete the Advanced Level of the English Language Certificate program at the University of Guelph will be considered as having met the English Proficiency requirement for undergraduate studies; for more information, visit the website at: [http://www.eslguelph.ca/](http://www.eslguelph.ca/).

The University reserves the right to deny admission to applicants who do not demonstrate satisfactory facility in English, regardless of academic qualifications.

Applicants required to meet the English Proficiency Requirement must do so by submitting the required scores in one of the following tests or battery of tests as outlined in points 1-6. Test results must be submitted to Admission Services prior to admission by the published document deadline.

#### 1. Test of English as a Foreign Language (TOEFL)

600 on the paper-based test (250 on the computer test) AND Test of Written English (TWE) - 5. The internet-based test requirement is a total score of 89 with no section less than 21.

These tests are offered on several dates each year by centres throughout the world. For more information please visit: [http://www.ets.org](http://www.ets.org).

#### 2. International English Language Testing System (IELTS)

Minimum overall score of 6.5 with no band less than 6. Information on test centres and registration can be obtained from IELTS Administrator, [http://www.ielts.org/](http://www.ielts.org/).

#### 3. The Michigan English Language Assessment Battery (MELAB)

Minimum overall score of 85 is required, a minimum composition score of 83. In addition, applicants must present a minimum score on the oral test of 3.

Information on the MELAB is available at [http://www.lsa.umich.edu/eli/testing/melab.htm](http://www.lsa.umich.edu/eli/testing/melab.htm).

#### 4. Canadian Assessment of English Language (CAEL)

A minimum overall band score of 70 is required. Information on the CAEL is available at [http://www.cael.ca/](http://www.cael.ca/)

#### 5. Pearson Test of English (PTE)

A minimum overall score of 60 with no score less than 60 in the individual components is required. Information on the PTE can be found at: [http://www.pearsonpte.com/Pages/Home.aspx](http://www.pearsonpte.com/Pages/Home.aspx)

#### 6. Advanced Level, English Language Certificate Program, University of Guelph

Successful completion of the Advanced Level of the English Language Certificate Program at the University of Guelph. For more information, visit the University of Guelph English Language Program website at: [http://www.eldguelph.ca/](http://www.eldguelph.ca/)

### Open Learning

The Open Learning program is an open admission distance-only mode of study program which provides access to university courses for individuals who wish to study independently and who are not interested in pursuing a degree at the present time. This program is designed to extend the academic resources of the University to individuals who wish to take courses for personal enrichment, professional updating or eventual application to a degree program.

No limit applies to the total number of distance education courses taken through Open Learning although students may enrol in a maximum of 1.50 credits (three courses) per semester.

Students wishing to apply to transfer from Open Learning to a degree program should contact Admission Services to obtain admission information specific to the degree program of their choice.

All students must have completed any specific secondary school subject requirements, or equivalents, and their post-secondary academic record must meet the requirements for continuation of studies. The academic record from any previous post-secondary experience will also be considered in determining admissibility. Applicants must also satisfy the English Proficiency requirements as outlined in the previous section.

For some programs, performance in specific required courses, forms or required background experience, where applicable, may be a consideration for admission. For all programs, where qualified applicants exceed the number of spaces available, admission decisions will be made on a competitive basis.

Individuals wishing to apply to Open Learning should contact the Centre for Open Learning and Educational Support for application forms and further information.

### Post-Degree and Letter of Permission

University graduates who wish to enrol in degree courses to upgrade their degree or to gain credit for admission to a graduate or other academic program should apply to a non-degree category (e.g. B.A. non-degree). Applicants must hold a degree which is recognized as equivalent to a Canadian university's undergraduate or graduate degree. A student from another university wishing to register at the University of Guelph to take courses for credit at the home university, must present The Visiting Student application and a Letter of Permission from the Registrar, Dean or program supervisor of the home institution authorizing a program selection. For details please visit: [http://admission.uoguelph.ca/visitingstudent](http://admission.uoguelph.ca/visitingstudent/).

The Post-Degree and Visiting Student (LOP) categories are not normally open to applicants who do not meet University of Guelph general regulations for continuation of study outlined under Continuation of Study, Undergraduate Degree Regulations, Section VIII of the Undergraduate Calendar and transfer requirements.

An offer of admission to post-degree or on the basis of Letter of Permission does not imply in any way that space will be available in the course(s) in which the applicant wishes to register. Students should contact Enrolment Services about space availability in their desired courses.

A post-degree applicant who has not previously registered at the University of Guelph, should apply at the Ontario Universities' Application Centre (OUAC) using an [OUAC 105 Online Application Form](http://www.ouac.ca/105/) using code GND. An applicant who has previously registered at the University of Guelph should apply online as a Non-Degree Readmission Student. All post-degree applicants must submit the Supplementary Information Form for Degree Holders.

Students who register in the non-degree category and who subsequently want to change to a degree status will be required to meet admission requirements for that program, and credit granted for courses taken in the non-degree category will be subject to the regulations pertaining to that program. Students should see their program counsellor for details.
Second Degrees

Students from the University of Guelph or from another university may be admitted to and graduate with a second undergraduate degree from the University of Guelph. If they have graduated with their first degree, they must apply for admission to the program for their second degree. A maximum of 10.00 credits may be transferred from the initial degree program. The course content of the second degree program must be substantially different from that of the first. If University of Guelph students apply to graduate with two different degrees at the same convocation, only 10.00 credits may be transferred from the registered program to the undeclared program. Note: A second degree is judged to be substantially different if:

- the specializations are in different subject areas as listed in Section XII--Course Descriptions; or
- the schedule of studies requirements are substantially different (no more than 25% overlap).

Honours Equivalent

Students from the University of Guelph or another university may upgrade a degree from the general program to the honours program to obtain an Honours Equivalent recognition. Students may also upgrade a degree from the honours program by the completion of an additional specialization to qualify for the Honours Equivalent recognition. All interested students must apply for admission to the Honours Equivalent program per the application procedures outlined in this section (IV - Application Procedures). All previous University of Guelph credits may be utilized toward the equivalent degree from the honours program.

To be granted an Honours Equivalent, students must satisfy the University of Guelph residence requirements. In addition, students must satisfy the conditions for graduation for the specified honours program using the calendar that is in effect for the semester to which they have been admitted.

The students who are granted the Honours Equivalent designation do not receive a second degree parchment and do not participate in a convocation program, but have the designation shown on their transcript. Graduation standing is not assigned for the Honours Equivalent designation.

Prior Learning Assessment

At the University of Guelph, Prior Learning Assessment is an acceptable process for assigning credit at the undergraduate level for learning stemming from experience acquired independently of courses taken at university. PLA provides a mechanism whereby credit is given for equivalence in a university course to those students who have mastered the content of the course concerned without having taken a formal course in the subject area. Such mastery may have been acquired, for example, through work experience, independent study or from non-degree courses. In the absence of a certificate or other formal acknowledgement of competence by an appropriately accredited institution, the student can challenge the appropriate specific course(s) offered by the University to a maximum of 5.00 credits in a degree program or 30% of the curriculum for Open Learning Certificates. This is a post admission process only.

Each academic department is responsible for determining which of its courses may be subject to PLA challenge. The challenge process could include one or more assessment methods, including standardized tests, written and/or oral examinations, performance evaluations, interviews, and portfolio assessments. These assessments require that the individual demonstrate, to a qualified faculty member, that pre-determined knowledge and skills have been acquired.

Students should contact Enrolment Services (ups@registrar.uoguelph.ca) for application forms and further information.

Readmission

Previously registered University of Guelph students must apply to Admission Services for readmission under any of the conditions outlined below. In some cases, applicants may reapply for the Fall entry point only. Applicants should contact Admission Services for details.

1. They were required to withdraw from their program for a period of two or more semesters.
2. They were suspended from the University for academic misconduct.
3. They have graduated from this University and wish to register for additional courses.
4. They registered in a program at another post-secondary institution and wish to return to the University of Guelph.
5. They have not registered at the University of Guelph for six or more consecutive semesters.
6. They are attending the University of Guelph on a letter of permission and wish to continue past the term of the letter of permission agreement.

Readmission to a program at the University of Guelph is not automatic. Students who are required to withdraw must apply for readmission to the University after completing the minimum two semesters of rustication. Students should consult sub-sections regarding appropriate admission requirements and deadline dates in this Section (IV--Admission Information). Applications for readmission should include a statement which outlines the basis for readmission. Criteria used for readmission may differ by academic program. Students considering readmission should consult with the appropriate admission counsellor regarding procedures and criteria for readmission to that program.

Students apply for readmission online via the Internal Transfer/Readmission application. An application fee is payable at the time the application is submitted. Refer to http://admission.uoguelph.ca for further information.

On December 19, 1995, the University Senate approved the following policy for the granting of credit while on rustication:

1. Students who have been required to withdraw, and who take university credit courses during their rustication period, will be eligible for up to 1.00 credit provided they meet the criteria for readmission and the criteria for the transfer of credit. Students registered for courses through the Open Learning program are not permitted to attend courses on campus.
2. Students who take university courses after the two-semester rustication period may normally transfer all these credits provided the student meets the criteria for readmission and the criteria for the transfer of credit.
3. Students who have been suspended for academic misconduct will not receive any credit for courses taken during the suspension period.

Note: This policy applies to any university credit course taken during the rustication period.

Right of Selection

It should be carefully noted that possession of the minimum requirements does not in itself guarantee admission to any of the programs or specializations offered at the University of Guelph. For all programs for which the number of qualified applicants exceeds the capacity, the University reserves the right to select the quota from among the qualified applicants.

For students applying to enter the University for the first time, the decision of the Admission Committee is final and there shall be no appeal to that decision.

An applicant for readmission may, under specific circumstances, appeal the decision of the Admission Committee to deny readmission. Refer to Readmission in Section IV--Admission Information.

Applicants are reminded that the University is a dynamic institution and that information pertaining to admission may change. It is the responsibility of the applicant to ascertain admission requirements at the time of application.

For additional admission information, visit the Admission Services website at http://admission.uoguelph.ca

Specific Subject Requirements and Recommendations

University of Guelph Programs

Specific subject requirements for the following programs offered by the University of Guelph are listed below:

- Bachelor of Applied Science
- Bachelor of Arts
- Bachelor of Arts and Sciences
- Bachelor of Bio-Resource Management
- Bachelor of Commerce
- Bachelor of Computing
- Bachelor of Landscape Architecture
- Bachelor of Science
- Bachelor of Science in Agriculture
- Bachelor of Engineering
- Bachelor of Science in Environmental Sciences
- Bachelor of Science in Technology
- Doctor of Veterinary Medicine

While specific subjects are listed under the new OSS Curriculum, some applicants may still present both OACs and Grade 4U and 4M courses. Students are advised to avoid course content duplication if they will be presenting courses from both the OAC and OSS curriculum. If two courses are presented which are deemed to be equivalent, only one will be used in calculating the admission average. The Non-Academic component of 4U/M co-op courses is not accepted as a contribution to admission requirements.

Out of province applicants should visit http://admission.uoguelph.ca/outofprov for applicable subject requirements. Students applying with educational credentials obtained outside of Canada should consult http://admission.uoguelph.ca/equivalency.
Bachelor of Applied Science--B.A.Sc.
Child, Youth and Family; Adult Development
ENG4U; one credit in a 4U Mathematics; SB14U or SCH4U; three additional 4U or 4M courses.

Applied Human Nutrition
ENG4U; one credit in a 4U Mathematics; SB14U; SCH4U; two additional 4U or 4M courses.

Recommendations and Notes:
• Biology (SB14U) is the recommended science course for students pursuing a major in Child, Youth & Family or Adult Development

Bachelor of Arts--B.A.
ENG4U; five additional 4U or 4M courses.

Recommendations and Notes:
1. All applicants are strongly encouraged to offer a credit in Mathematics or a credit in French (or other language) among the additional five courses.
2. Students planning on entering programs in the Social Sciences, and Mathematical Sciences are strongly advised to include one or more Mathematics courses, such as Advanced Functions.

Bachelor of Arts and Sciences--B.A.S.
ENG4U, MHF4U; two 4U courses from SB14U, SCH4U or SPH4U; one 4U or 4M Arts or Social Science; one additional 4U or 4M course.

Bachelor of Bio-Resource Management--B.B.R.M.
ENG4U; SB14U; four additional 4U or 4M courses.

Bachelor of Commerce--B.Comm.
Accounting, Food and Agricultural Business, Human Resources Management, Marketing, Management Economics and Finance, Real Estate and Housing Undeclared
ENG4U; MHF4U; one additional 4U Mathematics course, three additional 4U or 4M courses.

Hotel and Food Administration, Public Management, Tourism Management
ENG4U; MHF4U; four additional 4U or 4M courses.

Recommendations and Notes:
1. Hotel and Food Administration and Tourism Management: Applicants are considered on the basis of academic performance and review of a Background Information Sheet submitted to the Admissions Committee. The BIS deadline date for the Hotel and Food Administration and Tourism Management majors is March 1. Late applications may be considered if spaces are available.
2. Marketing: If available, students are encouraged to include Economics and/or Administrative or Organizational Studies and/or Accounting among their 4U or 4M courses.

Bachelor of Computing--B.Comp.
Majors in either Computer Science, ENG4U; MCV4U; four additional 4U or 4M courses.
Majors in Software Engineering ENG 4U (MCV4U or MDM 4U or MHF4U); four additional 4U or 4M courses.

Recommendations and Notes:
1. Computing and Mathematics of Data Management courses are recommended, as are any other courses necessary to prepare the student for study in an "Area of Application".

Bachelor of Landscape Architecture--B.L.A.
ENG 4U; five additional 4U or 4M courses.

Recommendations and Notes:
1. Applicants are required to submit a Background Information Form. A breadth of courses in the social, physical and biological sciences as well as the arts and languages is encouraged for all applicants.

Bachelor of Science--B.Sc.
ENG4U; MHF4U or MCV4U (see note 5); two 4U courses from SB14U, SCH4U or SPH4U; two additional 4U or 4M courses.

Recommendations and Notes:
It is highly recommended that students select one of the two additional courses bearing in mind:
1. Their eventual specialization.
2. Regulation I on Introductory Courses, Section IX-B.Sc. Applicants who lack one specific 4U requirement but who have a high overall academic standing are encouraged to apply for admission to the regular (non-coop) program.
3. Students contemplating admission to the D.V.M. Program should include the following 4U courses: Biology, Physics and Chemistry.

Bachelor of Science in Agriculture--B.Sc. (Agr.)
ENG4U; MHF4U; two 4U courses from SB14U, SCH4U or SPH4U, two additional 4U or 4M courses.

Recommendations and Notes:
1. Students contemplating admission to the D.V.M. Program should present 4U Physics, Biology and Chemistry.
2. Students who are lacking a specific 4U subject requirement but who have a high overall academic standing are encouraged to apply for admission.

Bachelor of Engineering--B.Eng.
ENG4U; MHF4U; MCV4U 2 4U courses from SB14U, SCH4U or SPH 4U; one additional 4U or 4M course.

Recommendations and Notes:
1. All applicants are encouraged to include both 4U Physics and Chemistry in their course.
2. Applicants are considered on the basis of academic performance and a review of a Student Profile Form submitted to the B.Eng. Admission Committee. In addition, due to the nature of the program, personal interviews and/or special tests may be used to assist in the selection of candidates. Differential criteria may prevail for admission to the various B.Eng. programs. Students who are admitted but lack specific required courses must complete replacement courses available at the University which do not all count towards the 23.50 credits required for the B.Eng. program. Students intending to enrol in these courses should consult the timetable and Section XII of the Calendar to determine the semesters during which they are offered.
3. Applicants who lack one specific subject requirement but who have a high overall academic standing are encouraged to apply for admission to the regular (non-coop) program. Replacement credits are available at the University of Guelph and 0.50 may be counted for credit in the degree only where a free elective is part of the degree major.
4. Students selecting a major in Environmental Biological, or Biomedical Engineering are advised to include Physics, Chemistry and Biology in their program of study. Students intending to major in Mechanical or Water Resources Engineering should include Physics, Chemistry and one of Biology or Computer Studies, Mechanical Engineering, Computer Engineering and Engineering Systems and Computing majors should include Physics, Chemistry and Computer Studies.

Bachelor of Science in Environmental Sciences--B.Sc. (Env.)
ENG4U; MHF4U; two 4U courses from SB14U, SCH4U or SPH4U, two additional 4U or 4M courses.

Recommendations and Notes:
1. To be best prepared for semester one of the program, all applicants are advised to include 4U Biology, Chemistry, and Physics.
2. Students who lack any one specific subject requirement but who have a high overall academic average are encouraged to apply for admission to the regular (non-coop) program. Students who are admitted with a deficiency in one of the secondary school requirements are encouraged to seek advice from their academic or admission counsellor. This deficiency must be resolved in the first year of the program.

Doctor of Veterinary Medicine-D.V.M.
The class size in the Doctor of Veterinary Medicine (D.V.M.) Program is limited to approximately 110 students.

Academic Requirements
For admission to the D.V.M. Program, a minimum of four full-time semesters (10.00 credits), including:
1. Biological Sciences - 1.50 credits (3 semester courses, with recommended emphasis on Animal Biology; one must be a Cell Biology)
2. Genetics - 0.50 credit (1 semester course)
3. Biochemistry - 0.50 credit (1 semester course)
4. Statistics - 0.50 credit (1 semester course with a Calculus prerequisite)
5. Humanities or Social Sciences - 1.00 credit* (2 semester courses)

Applicants must complete prerequisite courses while registered on a full-time basis (e.g. University of Guelph 2.50 credits per semester, the equivalent of five half-year courses per semester).

Note: Academic requirements for applicants to the D.V.M. Program for 2013 Entry.
To be eligible to apply for September 2013 entry to the D.V.M. Program students must have completed a minimum of four full-time semesters, including all D.V.M. admission course requirements, at a recognized university before December 31, 2012.

The earliest time at which applicants may apply for 2013 admission to the D.V.M. Program is during third year of their first undergraduate degree program. Please refer to 2013 D.V.M. application and required document deadline dates at: http://www.ovc.uoguelph.ca/future/dvm/

*Students entering the D.V.M. Program should be able to operate across discipline boundaries recognizing the relevance of the humanities and the social sciences to their career choice. In selecting these courses from among those acceptable, the prospective veterinary student should consider topics such as ethics, logic, critical thinking, determinants of human behaviour and human social interaction.

All courses must be at university level. Applicants should consult the list of acceptable University of Guelph courses and subject areas online at http://www.ovc.uoguelph.ca/future/dvm/. Courses need not be completed in a specialized college or faculty or in a designated Pre-Veterinary program. Students wishing to undertake their preparatory work at the University of Guelph should seek admission to the Bachelor of Science or the Bachelor of Science in Agriculture programs. Students who wish to undertake their preparatory work at another university should select an institution that offers the specific course requirements listed above as part of a degree program and that has rigorous entrance requirements and a reputation for academic quality.

Applications will also be considered from persons who have successfully completed a science graduate program and from persons currently enrolled in a science graduate program. For those persons currently enrolled, all the requirements of the program must be successfully completed by August 1st of the year of entry to the D.V.M. Program.

Persons who qualify must indicate their desire to be considered in the graduate student cohort. Their application will then be removed from the undergraduate applicant pool and considered separately. Selection for interviews will be made on the basis of academic achievement including grades in acceptable prerequisite subjects (undergraduate and graduate courses), MCAT scores, evaluation of the Background Information Form, two letters of reference from persons assessing the applicant's skills and knowledge of veterinary medicine and two letters of reference for persons familiar with the applicant's performance as a graduate student. Final selection will be based on this information and an interview. Normally a maximum of five students will be selected from this cohort each year.

Because of limitations in class size, all candidates should have an alternative career objective and course selection should be compatible with this objective.

**MCAT**

The Medical College Admission Test (MCAT) will be used for selection of domestic applicants. International applicants may submit GRE scores in lieu of MCAT scores. The deadline dates for receipt of MCAT scores for domestic applicants is January 1, 2013 for September 2013 entry.

For international applicants, the deadline for receipt of GRE or MCAT scores is February 1st.

A complete description of the MCAT is contained in the MCAT student manual available from:

Association of American Medical Colleges
2450 N Street, NW
Washington, DC 20037-1126, Tel: (202) 828-0400
Fax: (202) 828-1125
http://www.aamc.org/vmca/vmca.htm

The manual describes the areas in science and specific skills to be assessed by the test, the mathematical concepts required, general suggestions for preparing for and taking the test, and a full-length practice test. Preparation for the MCAT should begin with a careful reading of the student manual. Science topics covered on the test include basic principles and concepts in biology, general chemistry, organic chemistry, genetics and physics.

**Residence Requirements**

Canadian citizens or individuals who have Permanent Resident Status of at least one year's duration are eligible to apply as domestic students if they also satisfy the Ontario residency requirement. ‘Resident’ in this context is interpreted to mean someone who has resided in Ontario for twelve months, exclusive of time spent in post-secondary institutions. Consideration will also be given to a small number of exceptional applicants who are English speaking residents of Quebec for 2012. As of 2013 all Quebec residents must establish Ontario residency before the application deadline.

**Selection Criteria**

Since the number of applicants who satisfy the specific course requirements exceeds the number of available spaces in the D.V.M. Program, the Admissions Sub-Committee may use the following criteria to determine those who will be admitted. The members of the Sub-Committee endeavour to select those well-qualified applicants who, in their judgement, will be best able to successfully complete the veterinary medicine curriculum and who exhibit potential to become competent, responsible veterinarians dedicated to a lifetime of productive public service and continued learning. Candidates should pay attention to the selection criteria and attributes required for entry into the D.V.M. Program and use this information to guide them in preparation for application.

1. **Academic Achievement and Aptitude**

In view of the need to efficiently and quickly learn large amounts of factual material and to solve problems, applicants must have demonstrated achievement in the comprehension of scientific material. This will be evaluated by the scrutiny of transcripts of previous academic records and MCAT results. Attention will be paid to both the quality and consistency of grades in the program presented as preparation for admission, particularly for those applicants who have spent more than the minimal time in preparation. Course selections in an applicant's last two full-time semesters will be reviewed for academic coherence. For the purpose of D.V.M. admissions, a full-time semester will include at least 5 half-year courses (2.50 credits) from the acceptable list. It is expected that the level of an applicant's courses will correspond to the semester level (year) of his or her program. Please refer to information regarding acceptable courses at http://www.ovc.uoguelph.ca/Undergrad/potential/admission.shtml

2. **Animal and Veterinary Experience**

As part of the application process, candidates must demonstrate sufficient knowledge of the profession, its responsibilities and the industries it serves to permit the candidate to make and defend his or her career choice. This requires the candidate to spend adequate time under the supervision of veterinarians in clinical practice situations (volunteer or paid) in order to gain hands-on experience with a range of animal species. Practice situations include, but are not limited to, large, small, mixed, avian and exotic animal clinics; thus introducing the applicant to food producing, companion, zoo and wildlife animals, or aquaculture. Other work or volunteer experience with veterinarians can include non-practice situations such as industry (e.g. veterinary products, pharmaceutical), research and academia (universities), and government (e.g. public health, regulatory affairs). There is an expectation that candidates will be able to demonstrate for each animal or veterinary situation the role of the veterinarian, production and breeding systems, general features of housing and feeding, productivity measures and norms, marketing systems, animal behaviour relevant to restraint, feeding and reproduction, and emerging trends and issues in the industry.

3. **Background Information and Referees' Assessments**

Successful candidates should have integrity, reliability, maturity and determination. It is important that professionals have excellent communication and leadership skills, and that they have a talent for effectively working with others. To assist in identification of candidates who possess these and other attributes, applicants must complete a Background Information Form, in which they will describe their academic program, work experience and extra-curricular activities. In addition, applicants will be asked to write a short essay about why they wish to study veterinary medicine. Confidential referee reports will be prepared by teachers and professionals who have had professional contact with candidates and will be submitted to the D.V.M. application and required document deadline dates at: http://www.ovc.uoguelph.ca/Undergrad/potential/admission.shtml

4. **Additional Requirements**

**Literacy and Numeracy**

Successful candidates must be able to demonstrate literacy skills at least to the basic level as described in a coherent manner, and use appropriate language in context. Successful applicants must be able to devise a topic or concept for discussion, frame its bounds and communicate its content.

Students entering the D.V.M. Program will understand the value and principles of literacy and numeracy. They will be able to assimilate and comprehend written language at a basic level, to summarize information in a coherent manner, and use appropriate language in context. Successful applicants must be able to use skills of numeracy to check validity of information, to use and correctly interpret appropriate statistics to describe the distribution of observations in individuals and populations, and be able to perform basic tests of hypotheses (t-test, chi-square and simple regression) and interpret these correctly.
2. Communication Skills
Communication is the process of interacting with others respectfully and involves an exchange of information, feelings and values. It includes intrapersonal communication (self-understanding, self-evaluation, and reasoning) and interpersonal communication (interaction with others, relationship and self-disclosure). Through interpersonal communication, relationships are started, maintained, or destroyed. Good communication involves an understanding of self-awareness, of self-esteem, of feelings and emotions, the development of listening skills and the willingness to disclose oneself truthfully and freely. Good communication also requires an understanding of principles of language and verbal interaction, principles of non-verbal communication, and of interpersonal communication and relationships (relationship development and deterioration, improvement of interpersonal communication, conflict management, interviewing skills etc.)

Students entering the D.V.M. Program will be able to: listen respectfully and comprehensively appreciatively; practice the elements of good interpersonal communication successfully; demonstrate the ability to work cooperatively; and communicate effectively by oral, written, and electronic means at the appropriate literacy level. Successful applicants will be able to recognize the non-verbal aspects of communication by considering feelings, emotions, and values as elements of communication.

3. Judgement
Students entering the D.V.M. Program will be able to use knowledge, observational and analytical skills, with due consideration of value systems, to evaluate and implement decisions. They will be able to identify and articulate their personal value system; identify ethics and standards of conduct; and identify the values and assumptions that may be operative in various contexts. They must be able to identify, critically evaluate and accept the implications and consequences of decisions, to re-evaluate decisions based on new information, and deal effectively with uncertainty. They will be able to accept that self-assessment of ethics and standards of conduct is a professional responsibility, and accept that others may have different values and assumptions and respect those differences.

4. On-Going Curiosity (self-initiated learning)
Students entering the D.V.M. Program must be able to use self-initiated learning to maintain and enhance depth and breadth of understanding. They must recognize limitations of their knowledge, skills and attitudes, identify sources of ongoing learning opportunities, and demonstrate a commitment to on-going learning and self-evaluation.

5. Forms of Inquiry
Students entering the D.V.M. Program will be able to identify and articulate the strengths and weaknesses, similarities and differences of various forms of inquiry (i.e. those used by the physical scientist, the biological scientist, the social scientist and the scholar of the humanities). They will be able to describe and apply the scientific method, and articulate and evaluate personal problem-solving processes.

6. Essential Skills and Abilities

Application Procedure
Domestic applicants currently registered at the University of Guelph must obtain an internal application for transfer or readmission from Admission Services on-line at [http://admission.uoguelph.ca/internal](http://admission.uoguelph.ca/internal). All other domestic applicants must apply using the Ontario Universities Application Centre by accessing the computerized application service [http://www.ouac.on.ca/](http://www.ouac.on.ca/).

International applicants should apply through the Veterinary Medical College Application Service (VMCAS). For further details see [http://avmc.org/vmcas/vmcas.htm](http://avmc.org/vmcas/vmcas.htm). Alternatively, international applicants can apply using the University of Guelph International Application found at [http://admission.uoguelph.ca](http://admission.uoguelph.ca).

Application Deadline Dates
For Canadian citizens or permanent residents of Canada who satisfy the Ontario residency requirement applying to the first year of the Doctor of Veterinary Medicine Program, application forms must be received no later than January 1, 2013.

Please refer to deadline dates for supporting documentation including MCAT scores, references, official transcripts and the Background Information Form at: [http://www.ovc.uoguelph.ca](http://www.ovc.uoguelph.ca).

The deadline for International applicants using the VMCAS application is October 1. Those applying directly to the University of Guelph must apply by December 1 and supporting documentation must be submitted by February 1.

Application Limitation
In total, only four applications for admission to the D.V.M. Program will be considered from an individual.

Requests for Deferrals
Requests for deferral of admission to the D.V.M. program will not be permitted except on approval by the Admissions Committee due to significant medical, psychological or compassionate reasons.

Rabies Immunization
A condition of admission to the D.V.M. Program is agreement to a rabies immunization program which includes blood titre evaluation. Exemption from this condition may be granted in exceptional circumstances, but the student concerned must sign a release absolving the University of further liability.

Use of Animals
Live animals may be used for teaching purposes in some courses in the Veterinary Program, and this must be accepted by students admitted to the program. All animals are protected by the Animals for Research Act of Ontario (1980), the Guidelines for the Care and Use of Experimental Animals (Canadian Council on Animal Care), and the Animal Care Policies of the University of Guelph.

University of Guelph-Humber Programs
Admission requirements for University of Guelph-Humber programs are listed at: [University of Guelph-Humber](http://www.uoguelph.ca/future/dvm/admissions/documents/)

Submission of Documents
Each of the following applicable documents must be sent in support of an application. Please note that official transcripts submitted will become the property of the University of Guelph. Normally, official transcripts must be sent directly to the University by the institution issuing the document. The applicant is responsible for ensuring that all documents are received in Admission Services by the document deadline. No decision will be made until all documents have been received. Personal documents will be returned upon written request. Applications with incomplete documentation after the document deadline date will not receive consideration if the program is filled and closed.

1. Ontario Secondary School Diploma or equivalent Senior Matriculation Certificates, (e.g. Alberta Grade 12, G.C.E. etc.). Students currently enrolled in their final year of secondary school in Ontario are not required to submit documentation as decisions for early admission are based on interim grades reported by the secondary school.
2. Birth Certificate (only for students applying under Mature Student Regulation).
3. Official transcripts of all academic work taken at the post-secondary level, (e.g. university, college, etc.)
4. Transcript of marks from the last secondary school attended.
5. Any other documents demonstrating academic results or ability, or explaining the level of academic performance.
6. Any supplementary information required as part of the application.

Use of Animals in Teaching
Animals are used to support the teaching in some courses. The University of Guelph is dedicated to maintaining a high level of animal care in all of its teaching programs. Regulated by the Animals for Research Act, the University is in compliance with the standards set by the Canadian Council on Animal Care. Guelph has long been a leader in the promotion of animal welfare issues, and in 1989, established the Colonel K.L. Campbell Centre for the Study of Animal Welfare, the first such centre in North America. The Centre promotes humane systems of animal management and fosters the development of alternatives in animal use in research and teaching.
V. International Study

Study Abroad Programs

University of Guelph study abroad programs consist of two types: semesters abroad and exchange programs.

Semesters abroad offer a structured group experience where a Guelph faculty member accompanies students abroad. Students take Guelph courses and pay tuition to the University of Guelph.

Exchange programs offer students an opportunity to take courses at a university abroad for up to a year and get credit toward their degree at Guelph. In return, students from the host university may study at Guelph. Tuition is paid to the student's home university.

Participants in a University of Guelph study abroad program may qualify for a travel scholarship, see Section IX--Scholarships and Other Awards for details.

For information on these or other work or study abroad options, please see the Centre for International Programs or visit the Information Centre, Centre for International Programs, Level 3, University Centre. The University of Guelph has official student exchange agreements with the following institutions:

Australia
- Curtin University
- Deakin University
- Edith Cowan University
- Griffith University
- James Cook University
- La Trobe University
- University of Adelaide
- University of Canberra
- University of Sydney

Austria
- Universität für Bodenkultur Wien (BOKU)
- University of Innsbruck
- Management Centre Innsbruck

Caribbean
- University of the West Indies

Denmark
- University of Copenhagen

England
- Keele University
- Oxford-Brookes University
- Royal Agricultural College
- University of Plymouth
- University of Essex

Fiji
- University of the South Pacific

Finland
- Lahti Polytechnic

France
- École Supérieure de Commerce et de Management - Tours et Poitier
- Institutions in the Rhône-Alpes region
- University of Montpellier II

Germany
- University of Freiburg
- University of Tübingen
- University of Ulm
- University of Karlsruhe
- University of Heidelberg
- University of Konstanz
- University of Rostock
- University of Mannheim
- University of Stuttgart

Ghana
- University of Ghana

Hong Kong
- Hong Kong Polytechnic
- Lingnan University

Iceland
- University of Iceland
- University of Akureyri
- Holar University College
- Agricultural University of Iceland

Italy
- University of Udine

Malaysia
- Universiti Sains Malaysia

Malta
- University of Malta

Mexico
- Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)
- University of Guadalajara
- Universidad de las Americas Puebla

Netherlands
- Wageningen University
- Maastricht University

New Zealand
- Lincoln University
- Massey University

Norway
- UMB: Norwegian University of Life Sciences

Scotland
- Edinburgh College of Art
- University of Aberdeen
- University of Stirling
- University of Strathclyde

Singapore
- National University of Singapore

South Africa
- University of KwaZulu-Natal

Spain
- University of La Rioja
- University of Málaga

Sweden
- Swedish University of Agricultural Sciences
- Linköping University
- Lund University

USA
- Northwestern State University
- State University of New York in Cobleskill

International Letter of Permission--L.O.P.

The University of Guelph has established several programs under the Commonwealth Universities Study Abroad Consortium (CUSAC) whereby the University of Guelph students may study overseas on a Letter of Permission. Students participating in these programs pay tuition to the host institution and not to the University of Guelph. The Centre for International Programs administers all CUSAC, LOP programs.

For more information, visit the InfoCentre, Centre for International Programs, Level 3, University Centre.

Semesters Abroad

Students registered in a Semester Abroad are recognized as University of Guelph students and thus fall under the rules and regulations of the University of Guelph. It should be noted however, that many study abroad semesters involve the employment of sessional faculty from abroad. While every attempt is made to fully inform these faculty of the Senate regulations concerning academic procedures and evaluation of student work, there may be times when appeals by students are not handled in a fashion that would be appropriate under the University of Guelph guidelines. It is therefore recommended that any student who wishes to submit an appeal to Academic Review or request a grade reassessment should first contact the semester abroad coordinator for advice.
It will be the responsibility of the coordinator to refer the matter through the appropriate
channels. In some cases this might be to a department chair, in others, through a dean. At
times the University of Guelph's rules and procedures will be adhered to. Given the
distance between the University of Guelph and the host institution, the time deadlines in
place for processing requests for academic review or grade reassessments will not be
enforced. Students studying on an exchange should normally expect to abide by the rules
and regulations of the host institution.

The University offers the following semester abroad programs, however, not all semester
abroad programs are offered every year. Contact the Centre for International Programs,
University Centre, Level 3, for information on current offerings.

India Semester
The India semester offers a unique opportunity for up to 25 students to take University
of Guelph courses on site at the University of Rajasthan in Jaipur. The India semester
allows students to combine academic pursuits with the exploration of the rich historical
and cultural resources of one of the world's oldest civilizations.

Krakow Semester
The Guelph/Krakow semester provides the opportunity for up to 25 University of Guelph
students to study on the grounds of Jagiellonian University (the alma mater of Copernicus)
for the fall semester. Students, who have completed 4 semesters with a 70% average,
in all undergraduate university programs are encouraged to apply (an association with the
Agricultural University in Krakow provides OAC students with a unique opportunity to
learn about Polish agriculture). Courses are taught by Polish faculty in English and are
accredited at either the 3000 or 4000 level. Survival Polish lessons will be provided. In
addition to the experience of living in a Krakow university residence and learning formally
and informally about Polish art, culture, history, political systems, etc., there are a number
of trips to areas and place of interest in Poland. The semester is co-ordinated by a Guelph
faculty member who may also teach a course in Krakow. More detailed information about
academic requirements, bursaries, courses, etc. can be obtained from the Centre for
International Programs, University Centre, Level 3.

Latin America Semester
Organized with the University of Saskatchewan, this semester-long academic program in
Guatemala offers Spanish-language training and local home stays to complement our
humanities and social science courses. In the future, the Latin America Semester may
rotate among other countries in the region. For more information, contact Dr. Kris Inwood,
Department of Economics.

London Semester
Students may take a full-time semester in Britain by going on the London Semester. While
the courses offered are in Arts and/or Social Science, all students are eligible to apply.
The Senate regulations governing the London semester, application forms, deadline dates,
and details concerning the selection of students are available at the Centre for International
Programs, University Centre, Level 3.

Nice Program
Guelph students have many opportunities to enrich their academic French studies through
varied programs. They may choose to spend semesters 5 and 6 in Nice, France, with the
Canadian Third Year in Nice program, sponsored in part by the University of Guelph.
In this program, Guelph students take courses at the University of Nice along with regular
French students. Another possibility is spending one or more semesters at a university in
Quebec.

Paris Semester
Up to 25 students may take advantage of this unique semester abroad experience. Courses
are taught in English and are offered in the Arts and/or the Social Sciences. All students
are eligible to apply. Information, application forms and further details are available from
the Centre for International Programs, University Centre, Level 3.

Shanghai Semester
The Shanghai Semester offers students the opportunity to study in one of China's most
vibrant cities, a sophisticated metropolitan centre which boasts a rich culture and history.
Students will take courses taught in English by faculty from East China Normal University,
and there are organized field trips to areas around Shanghai. All students are eligible to
apply. Further details and application information are available from the Centre for
International Programs, University Centre, Level
VI. Schedule of Fees
All fees for a semester are due and payable on or before the date scheduled for registration for that semester.

Provisional registration may be granted to students who make arrangements with the Associate Registrar, Student Financial Services (SFS), to defer payment of their University account. Deferred payment normally will be granted only to students who can show proof of financial assistance from O.S.A.P. or other awards which can be confirmed by the University and are not on hand at the commencement of classes through no fault of the student. Students should apply for O.S.A.P. two months in advance of the first class day of each semester, in order that the application can be processed in time to have funds for registration. Cancellation of registration may be exercised at the discretion of the University for failure to complete the registration payment. Registration will be cancelled for students who have not paid or made satisfactory arrangement for payment by the deadline announced by SFS each semester. There is a $200.00 reinstatement fee levied for full-time students and $100.00 reinstatement fee levied for part-time students wishing to register after deregistration. Reinstatement will not be allowed after October 15th for the Fall semester, January 31st for the Winter semester and June 15th for the Summer semester.

Fall Semester Only - Minimum Registration Deposit
ALL students are required to make the minimum, compulsory, non-refundable Registration Deposit of $200.00 prior to the beginning of the Fall semester (please refer to the Student Financial Services website Tuition & Fees Announcement). Payment of this deposit by the deadline date will ensure that the courses selected for the Fall term will be retained. There are no exemptions from the payment of this deposit irrespective of current account balance or funding to come in the future. This condition may be waived on a case by case basis under extenuating circumstances, e.g., medical or compassionate grounds with documentation.

Academic sanction may be applied to students who have not made payment, or suitable arrangements for payment, of their University account. Academic sanction will prevent one or more of the following:
- release of semester examination results
- release of transcripts
- granting of a degree or diploma
- registration for a subsequent semester

Changes in Fee Schedule
The University reserves the right to make changes in the published schedule of fees and payment dates and also to assess charges, which are not included in the schedule of fees, for course material and/or transportation provided at University expense.

University Fees
Tuition Fees
The undermentioned tuition fees apply to Canadian students and those with permanent resident status. Students from outside of Canada, who do not have permanent resident status, should consult Visa Student Fees, in this section. For information regarding Tuition fees, for Full-time, Part-time and Audit students, visit the Student Financial Services website at: http://www.uoguelph.ca/registrar/studentfinance/index.cfm?fees/index.

Note: For tuition fees for the University of Guelph-Humber please check the University of Guelph-Humber website at: http://www.guelphhumber.ca/

Note: Special or Non-degree full-time students pay the same tuition fee per program as indicated by programs for regular full-time students.

Visa Student Fees
For information regarding Tuition fees for Full-time and Part-time Visa students visit the Student Financial Services website at: http://www.uoguelph.ca/registrar/studentfinance/index.cfm?fees/index.

Health Insurance for International Students
All international students registered at the University of Guelph are required to enrol in the University Health Insurance Plan (UHIP) - participation is compulsory. Current UHIP fees are found at Student Financial Services' website at: http://www.uoguelph.ca/registrar/studentfinance/index.cfm?fees/index.

Students who are studying on student visas and whose immigration status changes, or those who may be eligible for the regular tuition fees but are charged the visa student fees, must present acceptable official documentation to Enrolment Services, Office of Registrarial Services. To effect a change of fees in a particular semester, the documentation must be presented prior to: June 30 (Summer Semester), November 1 (Fall Semester), or February 1 (Winter Semester).

Categories of students who are exempt from paying the visa student fee are synthesized as follows:
- Canadian citizens, permanent residents, or their dependents.
- applicants for permanent residency who submit the appropriate letter.
- diplomatic or consular officers of another country or representatives of the United Nations or its agencies who are stationed in Canada, or their dependents.
- visitors, or their dependents, who are in Canada on an employment authorization.
- refugees (officially recognized).
- members of foreign military forces admitted to Canada under the Visiting Forces Act, and their dependents.

The descriptions above are brief statements synthesized from the regulations of the Ministry of Training, Colleges and Universities. Final interpretation rests with the Office of Registrarial Services and documentation must be acceptable to the Office of Registrarial Services. The regulations are subject to change without notice.

Other Tuition and Incidental Fees
Co-operative Education
For information on current Co-operative Education fees, visit the Student Financial Services website at: http://www.uoguelph.ca/registrar/studentfinance/index.cfm?fees/index.

Exchange Program
Guelph students attending other institutions are required to pay the University of Guelph the cost of full-time tuition and compulsory fees (less the Bus Pass fee). These students are assessed a $75.00 Administration Fee.

Foreign students attending the University of Guelph are required to pay the University Health Insurance premiums (UHIP) as well as the medical insurance premium, and Bus Pass fee.

Semester Abroad Program
Students are required to pay full-time tuition plus the compulsory medical insurance premium and dental plan premium.

Senior Citizens (Canadian Citizens & Permanent Residents only)
Senior citizens, aged 65 years and over as of the first day of the month in which registration for a semester occurs, who are admitted for registration, will be exempt from the payment of domestic tuition, student organization and other fees, with the exception of material costs required for Fine Art and Distance Education courses.

Summer Semester and Summer Session
For classification purposes, any combination of Summer Semester credits (13 week) and Summer Session credits (6 week) that total 2.00 credits or more will constitute full-time enrollment and tuition and other university fees will be charged accordingly.

Other University Fees; Student Organization Fees; College Semester Fees
For information on Other University Fees, Student Organization Fees and College Semester Fees, please visit the Student Financial Services website at: http://www.uoguelph.ca/registrar/studentfinance/index.cfm?fees/index.

Meal Plan Fees
The On-Campus Meal Plan is a mandatory meal plan for all students living in a traditional residence and optional for students living in the East Residence, the East Village Townhouses or off campus. The On-Campus Meal Plan is designed to cover both the Fall and Winter semesters. Hospitality Services offers five (5) different sizes of plans to accommodate a variety of eating habits. Each On-Campus Meal Plan is composed of 2 Plans in 1 - The Basic Plan and the Flex Plan.

The Basic Plan is used for all on-campus food purchases. These purchases are tax exempt when applicable.

The Flex Plan is used for vending machines, dining at select off-campus restaurants and delivery orders for pizza, subs and pitas. These purchases are taxable.

At the end of the Winter semester, so long as you are a University of Guelph student, Food Dollars remaining in your On-Campus Meal Plan will be transferred to the Carryover Ultra Food Plan. The transfer is subject to a $50.00 Administration fee. This carryover plan enables you to continue spending your remaining Food Dollars when you return to school, whether you live on or off campus.

Add the Textbook Plan to your Meal Plan! For the ultimate in convenience and savings you can add a $1000 Textbook Plan to any Meal Plan to be used exclusively in the University Bookstore to purchase all textbooks including used books, school supplies and U of G clothing for both the Fall and Winter semesters. Every time you make a purchase in the University Bookstore, you will be rewarded with a 10% REBATE on your total purchase - ADDED to your FLEX Plan the next business day. Any textbook money that has not been spent at the end of the school year can be refunded upon request or it will automatically be added to the Carryover Ultra Plan.

Information on the On-Campus Meal Plan Fees is available at the Student Financial Services website http://www.uoguelph.ca/registrar/studentfinance/index.cfm?fees/index. For those students not required to purchase and On-Campus Meal Plan, Hospitality Services provides a convenient, money saving Ultra Food Plan. A Textbook Plan can also be added to the Ultra Food Plan.

For more information on Hospitality's meal plans visit the Hospitality Services website http://www.hospitality.uoguelph.ca/mealplans.htm.

Parking Fees
For information regarding Parking Services visit the Parking Services website http://www.uoguelph.ca/security/Parking/index.html
Prior Learning Assessment

<table>
<thead>
<tr>
<th>Name of Fee and Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee</td>
<td>$50.00</td>
</tr>
<tr>
<td>Course Fee</td>
<td>1/2 of the tuition fee for the course</td>
</tr>
</tbody>
</table>

Refunds

Withdrawal

A student who makes a request for Withdrawal from the University may apply to the Office of Registrarial Services for a refund of tuition fees provided the hiatus has been authorized (see also Withdrawal, Section VIII--Undergraduate Degree Regulations).

If the withdrawal or credit drop results in a credit balance in your fees account (i.e. payments are greater than charges) a refund cheque is produced for credit balances over $500. Allow four to six weeks before refunds are available from Student Financial Services.

The University has been directed by the Ministry of Training, Colleges and Universities to return refunds to the National Student Loan Centre in instances where assistance was received through a Government Student Loan. In Cases in which students hold U.S. Federal Loans all refunds are directed to the U.S. Department of Education per their directive.

Winter and Summer Semesters - Refunds of tuition fees will be calculated according to the effective date and the following schedule:

<table>
<thead>
<tr>
<th>Class Days</th>
<th>Refund Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 5 inclusive</td>
<td>100%</td>
</tr>
<tr>
<td>6 - 10 inclusive</td>
<td>75%</td>
</tr>
<tr>
<td>11 - 15 inclusive</td>
<td>65%</td>
</tr>
<tr>
<td>16 - 20 inclusive</td>
<td>50%</td>
</tr>
<tr>
<td>21 - 25 inclusive</td>
<td>35%</td>
</tr>
<tr>
<td>26 - 30 inclusive</td>
<td>20%</td>
</tr>
<tr>
<td>31 and beyond</td>
<td>nil</td>
</tr>
</tbody>
</table>

Fall Semester - The compulsory non-refundable Registration Deposit of $200.00 is forfeited as the first charge against a withdrawal/cancellation or no show for the semester including the first five class days. The above schedule will only come into effect once the first $200.00 penalty has been used up.

Refunds of Other University Fees (except Residence and Meal Plan Fees) and Student Organization Fees (except Bus Pass, medical insurance premium and dental insurance premium, please see specific details on these fees) will be made in full up to and including the 15th class day of a semester. No refund of Other University Fees or Student Organization Fees will be made after the 15th class day. The effective date for the refund of tuition and fees will be the date on which the student notifies the Office of Registrarial Services regarding the withdrawal.

Room charges will be refunded on a pro rata basis for the period in residence, but cancellation of the residence contract will also result in forfeiture of all or part of the residence deposit. Refer to section 4.3 of the Residence Contract Terms & Conditions for further information. The effective date for refund will be the date belongings are removed from the room, a room check made and the room key, post office key and university ID card returned; or, the authorized effective date for withdrawal, whichever is later. Students to whom a room assignment has been made and who withdraw and subsequently re-register up to and including the 5th class day will be liable for any penalties incurred through forfeiture of the residence contract.

Meal plan fees, excluding the Capital Fund Component, will be refunded on a pro rata basis for the operating expense portion, plus the unused food portion, for authorized cancellation of a contract. The effective date for refunds will be the date on which the student notifies the Office of Registrarial Services regarding the withdrawal, except if a student withdraws before or after the first day of classes and re-registers before or on the 5th day of classes, cancellation of the contract is not permitted.

Bus Pass Fee

This fee is not refundable unless a student withdraws from the university within the first five class days of the semester. Please direct inquiries to the C.S.A. office.

Classification Changes

Refunds of tuition fees for students changing from full-time to part-time will be calculated on the difference of tuition values at the same rates for withdrawals. Refunds of Other University Fees and Student Organization Fees (except Bus Pass, Dental Insurance premium and medical insurance premium) will be made in full up to and including the 15th class day of a semester. No refunds of Other University Fees and Student Organization Fees will be made after the 15th class day. The effective date for classification change will be the date such change is reported to the Office of Registrarial Services.

Co-operative Education

A student who makes a request for Withdrawal from the University may apply to the Office of Registrarial Services for a refund of tuition fees provided the hiatus has been authorized (see also Withdrawal, Section VIII--Undergraduate Degree Regulations).

Rooms for students who do not wish to support the fund. Applications for refund are to be made at the office of the Assistant Dean O.V.C. Refunds and receipts for donations will be remitted before the end of the fall semester.

Special University Fees

The following Special University Fees are charged on a user-fee basis as outlined below:

<table>
<thead>
<tr>
<th>Name of Fee and Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional Fees</td>
<td></td>
</tr>
</tbody>
</table>

Dental Insurance Premium

The Dental Plan has an opt-out option. Please contact the Student Benefits office for the opt-out deadline. The fee is not refundable past the deadline.

Dropped Courses

Refunds of tuition fees for courses dropped by part-time students will be calculated at the same rates for withdrawals. The effective date for the drop action will be the date such information is reported to the Office of Registrarial Services.

Equipment Fund for D.V.M. Students

The Equipment Fee Fund is refundable during the first 15 class days of the semester to those who do not wish to support the fund. Applications for refund are to be made at the office of the Assistant Dean O.V.C. Refunds and receipts for donations will be remitted before the end of the fall semester.

Medical Insurance Premium

This premium is not refundable unless a student withdraws from the university within the first five class days of the semester. Please direct inquiries to the Student Benefits Office.

Student Society Fee for Landscape Architecture Students

Please refer to the Student Society for refund information.

Optional Fees

OPIRG-G is refundable during the first 3 weeks of each semester to those who do not wish to support the fund. Applications for refund are to be made at the OPIRG-G offices. RADIO GRYPHON fee is refundable during the first 3 weeks of each semester to those who do not wish to support the fund. Applications for refund are to be made at the Radio Gryphon offices.

Session Courses

In addition to the refund schedule quoted above, there will be a flat fee levied for each session course dropped after the first week of the course. The financial penalty is approximately double the regular course rate penalty.

Residence Fee

Information on Residence Fees is available at the Student Financial Services website [http://www.uoguelph.ca/registrar/studentfinance/index.cfm?fees/index] A $500 deposit is required to apply for residence. For more information regarding Student Housing Services visit the Student Housing Services website [http://www.housing.uoguelph.ca/page.cfm].

D.V.M. and Graduate Students in Single Student Residence

Due to the longer D.V.M. Winter semester, an increased Winter residence rate is applicable to D.V.M. students. Similarly, an increased rate is applicable to graduate students who must remain in residence after the end of the regular Winter semester. Students will be informed of the applicable dates, deadlines and charges late in the Fall semester or early in the Winter semester. A semester for residence purposes will terminate on the residence closing date indicated in the current Residence Contract. Section 6.2.8 of the Residence Contract requires that students vacate their rooms within 24 hours of completion of their final examination.
### Special University Fees

<table>
<thead>
<tr>
<th>Name of Fee and Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account Deferral Fee</td>
<td>$60.00 per occurrence</td>
</tr>
<tr>
<td>B.L.A. Student Society Fee</td>
<td>$50.00 per semester</td>
</tr>
<tr>
<td>Cheque Refusal Fee</td>
<td>$60.00 per cheque in the amount of $452.00 or greater upon which payment is refused ($30.00 per cheque in the amount of less than $452.00).</td>
</tr>
<tr>
<td>Cheque Refusal Fee</td>
<td>$60.00 per cheque in the amount of $452.00 or greater upon which payment is refused ($30.00 per cheque in the amount of less than $452.00).</td>
</tr>
<tr>
<td>Cheque Processing Fee</td>
<td>$20.00 per occurrence</td>
</tr>
<tr>
<td>Distance Education Resource Fee</td>
<td>$75.00 per D.E. course</td>
</tr>
<tr>
<td>Equipment Fund for D.V.M.</td>
<td>$50.00</td>
</tr>
<tr>
<td>Equipment Fund for B.ENG.</td>
<td>$40.00</td>
</tr>
<tr>
<td>Graduation Late Graduation Fee</td>
<td>$60.00</td>
</tr>
<tr>
<td>Late Registration Fee</td>
<td>$60.00 per occurrence</td>
</tr>
<tr>
<td>Letter of Permission</td>
<td>$50.00</td>
</tr>
<tr>
<td>Official Transcript</td>
<td>$12.00 each copy</td>
</tr>
<tr>
<td>OAC Lab Fee</td>
<td>$25.00 per semester</td>
</tr>
<tr>
<td>Program Transfer Fee</td>
<td>$40.00 per occurrence</td>
</tr>
<tr>
<td>Registration Reinstatement Fee</td>
<td>$200.00 per occurrence for full-time students $100.00 per occurrence for part-time students</td>
</tr>
<tr>
<td>Supplemental Privilege</td>
<td>$50.00 per occurrence</td>
</tr>
</tbody>
</table>

**Note:** If the student pays the fee for the supplemental privilege and subsequently chooses not to write it, a refund will be made if the request is submitted in writing at least 15 days prior to the scheduled date of the supplemental to Undergraduate Programs Services, Office of Registrarial Services. *No refunds will be made for fees paid for examinations which were to be written at another university or college under the direction of the student.*
VII. Academic Advising

A university education is a complex and multi-faceted experience, which is best undertaken in a supportive and encouraging environment. As part of its dedication to student success, the University of Guelph is committed to providing high-quality academic advising, in order to assist students in the development and pursuit of academic objectives consistent with their life goals and the available opportunities at the University. The responsibility for developing educational plans and setting goals rests with the student. Academic advising contributes to this process by identifying alternatives, exploring likely outcomes, and referring students to appropriate resources.

Academic advising at Guelph is delivered by a team which includes faculty advisors, program counsellors, the Undergraduate Academic Information Centre (UAIC), the Associate Vice-President (Academic) and others. Coordinating all activity is the University’s Council on Undergraduate Academic Advising (CUAA), which has responsibility for overall advising systems direction and policy. The UAIC provides general walk-in assistance to students and, as appropriate, directs students to specialized advising resources. Each student has direct access to a Program Counsellor, who assists with degree program requirements and expectations. Students who are registered in a degree program that requires/allows for the declaration of a specialization (major, minor, area of concentration) also have direct access to Faculty Advisors. Faculty Advisors are assigned to specializations and focus on subject-related issues and advice.

These components of the academic advising system work together to achieve goals and objectives that include:

- helping students develop an educational plan and choose an appropriate course of studies to meet their academic and life objectives
- ensuring that students are aware of opportunities and resources that can assist them in achieving their educational goals
- assisting students in interpreting university policies and procedures, and applying general rules to their specific cases
- facilitating resolution of academic problems, conflicts and concerns, as appropriate
- referring students as necessary to other resource units
- collecting and disseminating information on student needs, wants, perceptions, and trends in order to enhance institutional effectiveness and adaptability

Within the system, specific roles and responsibilities are distributed as indicated below:

Students

Responsibilities of the Student

Students admitted to the University are responsible for understanding and meeting certain responsibilities regarding Undergraduate Degree Regulations and Procedures, degree requirements, course requirements, Schedule of Dates, rules of conduct and accessing the University of Guelph email account. These responsibilities are described in Section I of the Undergraduate Calendar.

The responsibilities of students regarding academic advising are to seek, when necessary:

- information from the Undergraduate Academic Information Centre
- advice and assistance regarding academics from the program counsellor or faculty advisor
- from the program counsellor or faculty advisor clarification of regulations and procedures

Faculty Advisors

Most undergraduate degree programs have a faculty advisor for each of their specializations. A contact list for current faculty advisors is available on the Undergraduate Academic Information Centre website at http://www.uoguelph.ca/uaic/facultyadvisors.

Role of the Faculty Advisor

The role of the faculty advisor is to:

- provide information about the academic requirements of the specialization, including eligibility to declare the specialization and graduation requirements
- refer other campus services, as necessary
- communicate information about the program to the dean, chairs and directors, faculty advisors, curriculum committees, program committees (and their sub-committees); and to bring forward any concerns or issues as students progress through the Schedule of Studies for the degree program
- liaise with the faculty advisor for the specialization, in order to provide information about the degree program and the fit of the specialization within the degree program

Responsibilities of the Faculty Advisor

The responsibilities of the faculty advisor are to:

- be familiar with the academic requirements of the specialization, including eligibility to declare the specialization and graduation requirements
- assist students wishing to change or add specializations

Program Counsellors

All undergraduate degree programs have a program counsellor. A contact list for current program counsellors is available on the Undergraduate Academic Information Centre website at http://www.uoguelph.ca/uaic/programcounsellors.

Role of the Program Counsellor

The Program Counsellor has particular expertise in the degree program requirements and regulations, as well as the various specializations and their fit within the degree program. The Program Counsellor is also familiar with the policies and procedures that govern university practice. The role of the program counsellor is to:

- provide information about the academic requirements of the degree program, including admission requirements, Schedule of Studies requirements, Continuation of Study requirements, and graduation requirements
- refer to other campus services, as necessary
- communicate information about the degree program to the dean, chairs and directors, faculty advisors, curriculum committees, program committees (and their sub-committees); and to bring forward any concerns or issues as students progress through the Schedule of Studies for the degree program
- liaise with the faculty advisor for the specialization, in order to provide information about the degree program and the fit of the specialization within the degree program

Responsibilities of the Program Counsellor

The responsibilities of the program counsellor are to:

- be familiar with the academic requirements of the degree program and its specializations, including admission requirements, the Schedule of Studies and Continuation of Study requirements, and graduation requirements for the degree program
- assist the student to make academic decisions and understand the implications of those decisions
- assist with course selection and enrolment management issues related to the degree program
- explain transfer procedures and requirements
- explain appeal procedures
- assist with graduation checks
- sign program approval, as appropriate
- change student type, as appropriate
- refer to the faculty advisor, as appropriate
- track the status of program approval
- consult, as necessary, with other campus services
- provide relevant information to the faculty advisors, departments, dean, curriculum and program committees (and sub-committees) about student issues with the degree program
- participate at liaison events, as requested

Undergraduate Academic Information Centre

The role of the Undergraduate Academic Information Centre (UAIC) is to provide general academic advising information to undergraduate students. This includes appropriate referral to the program counsellor, or faculty advisor, as well as other support services on campus.
For some students, the Centre may function as a first point of contact for information about academic issues. Peer helpers in the unit operate on an assessment and referral system - first helping the student to identify the problem or issue, and then, as necessary, referring her/him to the appropriate resource (e.g. program counselling office, faculty/specialization advisor, Career Services, Financial Services, etc.).

At the Centre, students will find general information on topics including but not limited to transfer requirements and procedures; Continuation of Study requirements; admission and graduation requirements; information about appeal process and procedures; help with interpreting the calendar; or help with different forms. Students who require more detailed information about their particular degree program requirements, or who have more specific questions may be directed to the program counselling office or to the faculty advisor, as appropriate.

UAIC is a resource for all students, with particular sensitivity to issues facing transfer (advanced standing) students, non-degree and general studies students, and "undecided"* students, including first year students or other students contemplating a change in program.

* Although most University of Guelph students declare a major upon entry, "undecided" in this context refers to students who may be declared in a major but are now not sure whether the program is the right fit for their educational, career, or life goals.

**Council on Undergraduate Academic Advising**

The role of the Council on Undergraduate Academic Advising (CUAA) is to develop, review, discuss, and recommend to senior administration on an ongoing basis any and all advising-related strategies, policies, and processes.

The CUAA is responsible for managing and directing academic advising policies at the university. The CUAA reports to, and is chaired by the Associate Vice-President (Academic). Membership includes broad representation from stakeholders across the university community including, but not limited to: program counsellors, faculty advisors, Office of Registrarial Services, Coordinator of Undergraduate Curriculum, deans, chairs, Student Affairs, Centre for Open Learning and Educational Support/SCOL, undergraduate students, Centre for International Programs, and the Coordinator of the Undergraduate Academic Information Centre. The Council normally meets once per semester.

The CUAA develops strategic directions and formulates policy on advising issues, coordinates planning around academic advising issues, and serves as a permanent communication channel to help coordinate the work of the various individuals and entities engaged in academic advising activities.

**Interpretation of University Academic Regulations**

A student who requires assistance in the interpretation of the academic regulations of the University or the method of their application in reference to the student's particular circumstances should consult the Undergraduate Academic Information Centre, their Program Counsellor, or one of the Associate Registrars (Office of Registrarial Services, Level 3, University Centre).

**Non-Academic Counselling**

Students are advised to consult the Student Life sub-section in Section XIV--General Information in this Calendar, for information on the types and locations of non-academic counselling offered by the University.

**Program Approval**

Students should present their Academic Evaluation Report plus any updates when seeking academic advice. Approval is required if:

1. Most students who wish to register for more than 2.75 credits prior to the last day of an add period require program counsellor approval (some degree programs are exempt from the 2.75 maximum). On the last day of an add period all students can register in up to 3.25 credits in a semester without obtaining program counsellor approval.
2. Students who wish to make a change to their specialization within their current degree program (i.e. major, minor, area of concentration) must complete an Undergraduate Schedule of Studies Change Request form. Once the form has been completed the student must obtain the signature of the program counsellor for the degree program and submit the completed form to Student Client Services (Level 3, University Centre).
The academic regulations outlined in VIII—Undergraduate Degree Regulations and Procedures are the basic regulations for undergraduate degree programs of the University as approved by the Senate. Terminology used to describe academic regulations is defined in the Glossary. In these regulations where the consent of the dean is required, the term "dean" is interpreted to mean the person responsible for the academic program, for example dean, associate dean, director, chair of program committee, or the program counsellor in a particular degree program.

VIII. Undergraduate Degree Regulations and Procedures

General Information

Academic Consideration, Appeals and Petitions

Process for Academic Consideration and Appeals

Chart outlining the categories for academic consideration, grounds, timelines and appeals

<table>
<thead>
<tr>
<th>Category</th>
<th>Grounds for Consideration</th>
<th>Consideration Granted By</th>
<th>Period of Consideration</th>
<th>Subsequent Appeal To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incomplete Course Work (see below for deferred privilege requests)</td>
<td>Medical Psychological Compassionate</td>
<td>Instructor</td>
<td>Same semester</td>
<td>Academic Review Sub-Committee Submitted as soon as possible, not later than the end of the following semester</td>
</tr>
<tr>
<td>Request for deferred Privilege (Examination or Condition)</td>
<td>Medical Psychological Compassionate</td>
<td>Academic Review Sub-Committee (consult with program counsellor)</td>
<td>Documentation must be submitted to program counsellor within five working days of the missed examination/course work deadline</td>
<td>Petitions Committee 10 working days deadline for appeals of academic review decisions</td>
</tr>
<tr>
<td>Final Course Results</td>
<td>Medical Psychological Compassionate</td>
<td>Academic Review Sub-Committee (consult with program counsellor)</td>
<td>Documentation must be submitted within the first five class days of the subsequent semester</td>
<td>Petitions Committee 10 working days deadline for appeals of academic review decisions</td>
</tr>
<tr>
<td>Request for Probationary Status</td>
<td>Medical Psychological Compassionate</td>
<td>Academic Review Sub-Committee (consult with program counsellor)</td>
<td>Should be submitted by the first deadline of the next semester</td>
<td>Petitions Committee 10 working days deadline for appeals of academic review decisions</td>
</tr>
<tr>
<td>Request for Grade Reassessment</td>
<td>Calculation Error or omission</td>
<td>Instructor</td>
<td>10 class days of the following semester</td>
<td>No appeal</td>
</tr>
<tr>
<td>Request for Grade Reassessment</td>
<td>Methods and Criteria</td>
<td>Department Chair</td>
<td>10 class days of the following semester</td>
<td>Petitions Committee 10 working days after decision of chair</td>
</tr>
<tr>
<td>Request for Grade Reassessment</td>
<td>Misapplication of an Academic Regulation</td>
<td>Instructor</td>
<td>Should be initiated as soon as possible</td>
<td>First Level: Department Chair Second Level: College Dean Third Level: Provost</td>
</tr>
</tbody>
</table>

General Information for Academic Consideration and Appeals

The University of Guelph is committed to supporting students in their learning experiences and responding to their individual needs. To this end a broad network of advising, counselling, and support services is provided to assist students in meeting their personal and academic goals. The University is aware that a variety of situations or events beyond the student's control may affect academic performance. Support is provided to accommodate academic needs in the face of personal difficulties or unforeseen events. Procedures for academic appeals are designed to ensure that every effort is made at these times to provide appropriate accommodation and consideration, thus enabling students to complete course and program requirements as quickly as possible.

Knowledge of the procedures, early action on the student's part, timely consultation with the instructor(s) and/or program counsellor, and immediate provision of any required documentation will facilitate a prompt, co-ordinated institutional response.

Academic Consideration

The University will consider granting consideration for courses if there are sufficient extenuating medical, psychological or compassionate circumstances. Academic Consideration may take the form of an extended deadline, a deferred privilege, a late drop of a course(s) with or without failure, withdrawal from a semester with or without academic failure, or permission to continue on probationary status. A deferred privilege could take the form of approval to write a missed final examination or the completion of a course requirement after the end of the semester. Academic consideration is granted when acceptable medical, psychological or compassionate circumstances affect any portion of the semester work. Generally, work commitments will not constitute grounds for academic consideration. Depending upon the circumstances and whether the semester work is complete, consideration may be granted by the instructor, the program counsellor or the Academic Review Sub-Committee of the program in which the student is registered. Students will need to assess the extent of the difficulty they face and the possible implications on their course work. For instance, an illness which lasts one or two days resulting in a missed deadline can usually be resolved between the faculty member and the student, often without documentation. Circumstances which affect the student's ability to attend classes, write term tests or meet assignment deadlines for an extended period of time may require more formal documentation and consideration. Students are encouraged to seek documentation if the situation extends for a significant length of time. The program counsellor, who is the dean's designate, should be contacted regarding appropriate procedures and documentation.

The program counsellor is the student's advisor in all matters pertaining to academic consideration and can assist in defining an appropriate course of action (counsellor names and locations can be found in Section VII - Academic Advising). It is the student's responsibility to consult the program counsellor as soon as extenuating circumstances affect academic performance, in order to initiate action, and provide any required documentation.

All available evidence, including the student's performance during the semester, will be given careful consideration when making a decision. Procedures to follow in each case are outlined below. Questions about procedures and deadlines should be directed to the program counsellor.

Grounds for Academic Consideration

Where possible, requests for academic consideration are to be accompanied by supporting documentation. Students unsure of documentation requirements are encouraged to contact their program counsellor.

1. Medical Grounds

For academic consideration based on medical grounds a student may be asked to provide documentation for the period of the illness. The necessity for documentation will depend in part upon the length of the illness and the amount of work missed during this time. Such documentation will always be required in the event of a request for consideration beyond the grade submission deadline for the course. If the medical situation results in missed semester work, the student should contact the instructor, presenting medical documentation where warranted. If the absence due to illness is of a duration that will affect a number of courses or completion of the semester's work, the student must contact the program counsellor for advice and consideration.

When the absence affects final examinations or final assignments the student should go to Student Health Services or a personal physician for documentation. The student must present the medical documentation to the program counsellor.
2. Psychological Grounds
For academic consideration based on psychological grounds the student may be asked to provide documentation for the period affected. The necessity for documentation will depend in part upon the length of the problem and the amount of work missed during this time. Such documentation will always be required in the event of a request for consideration beyond the grade submission deadline for the course. The student should submit this documentation to the program counsellor who will then advise the instructor of the need for consideration. If the difficulty is of a duration that will affect a number of courses or completion of the semester's work, the student must contact the program counsellor for advice and consideration.

3. Compassion Grounds
Unforeseen circumstances beyond the student's control in either his/her personal or family life may affect academic performance. The procedure to follow to request academic consideration based on compassionate grounds depends upon the severity of the circumstance and the amount of work missed. Students may wish to contact the instructor for consideration for missed work resulting from a compassionate circumstance. If the circumstance is more significant, or if the consideration sought will go beyond the grade submission deadline for the course, the student must consult with the program counsellor. Generally, work commitments will not constitute grounds for academic consideration.

Incomplete Course Work
Instructors are responsible for granting academic consideration, if applicable, for course work up to the grade submission deadline for the course. Types of consideration that may be granted by an instructor include the setting of a make-up test, re-weighting the value of course assignments, extending a deadline or allowing the resubmission of an assignment (up to the grade submission deadline for the course). Students should consult with their program counsellor for advice on an appropriate course of action if:

- The student feels that appropriate consideration has not been granted by the instructor, or
- The student is dismissed with just cause from a work term.

Student's Responsibilities
If due to medical, psychological or compassionate circumstances a student is unable to complete a final requirement of the course by the course grade submission deadline and wishes academic consideration, the student should:

1. Consult with the program counsellor for advice on the appropriate consideration that should be requested.
2. Submit a request for consideration on the "Request for Academic Consideration" form available from Enrolment Services, Office of Registrarial Services or the program counsellor. Deadlines for Academic Review Sub-Committee meetings can be found in Section III—Schedule of Dates.

Instructor's Responsibilities
In a case where a student has not completed course requirements by the course grade submission deadline, the instructor shall complete the "Instructor's Recommendation" form recommending that the student be granted one of:

1. a passing grade
2. credit standing
3. a deferred privilege
4. a grade reflective of work completed to date

1, 2, or 3 will only be granted by the Academic Review Sub-Committee if the medical evidence or compassionate reasons have been verified and accepted. 4 will be granted if the medical or compassionate circumstances presented are inadequate or insufficiently documented. The instructor should include with the Instructor's Recommendation Form any documentation provided to the instructor by the student in support of the academic consideration request.

A student who receives credit standing will receive credit in the course without a numerical grade. This course will not be included in the student's overall average or specialization average.

A deferred privilege could be approval to write an examination and/or to submit an assignment(s). Deferred privileges are normally required to be completed early in the following semester, refer to Section III—Schedule of Dates.. The Schedules Section, Office of Registrarial Services, will inform the student of the deadline for the deferred privilege (see Deferred Privilege).

If on the basis of acceptable medical, psychological or compassionate documentation a numerical passing grade or credit standing is granted rather than a deferred privilege, the student may request the deferred privilege. The request must be submitted in writing to Enrolment Services, Office of Registrarial Services, by the end of the add period for the following semester.

Co-operative Education Program - Appeal Process
Students may be required to withdraw from the Co-op Education program for any of the following reasons:

1. Work Term and Work Preparation Related Issues
   a. The student leaves the employer without approval during the work term.
   b. The student is dismissed with just cause from a work term.
   c. The student receives an "Unacceptable" Co-op Work Performance Evaluation by the employer.
   d. The student did not complete COOP *1100 or did not receive a passing grade.

2. Academic and Work Term Schedule of Studies Related Issues
   a. Maintaining full-time academic status during academic semesters (minimum 2.0 credits per semester).
   b. Successfully completing the requirements for each of the approved scheduled academic semesters.
   c. Completing no more than five full-time academic semesters in their co-op program before beginning the first work term.
   d. Completing COOP *1100 in the semester scheduled.
   e. Completing a Fall, Winter and Summer work term, unless otherwise agreed to.

3. Academic Related Issues
   a. The student does not have the required minimum 70% cumulative average after full-time studies in first year, based on a minimum of 2.0 credits in each of the Fall and Winter semesters.
Appeal Process
A student who is required to withdraw from the Co-op Education program has the option to appeal. In the case where a student wishes to apply for re-admission to the program, the student must appeal the “Required to Withdraw from Co-op” decision no later than the 15th class day after notification. Students cannot re-apply for admission to the Co-op Education program in subsequent terms.

1. Work Term and Work Preparation Related Appeals
If the student is required to withdraw from the Co-op Education program on the basis of Work Term or Work Preparation related reasons and wishes to appeal this decision, the appeal must be submitted to the Co-op Appeal Committee using the Co-op Appeals Form. The form can be obtained from the Co-operative Education & Career Services Office. The decision of the Co-op Appeal Committee is final.

2. Academic and Work Term Schedule of Studies Related Appeals
If the student is required to withdraw from the Co-op Education program because he/she has not followed the Academic and Work Term Schedule of Studies and wishes to appeal this decision, the appeal must be submitted to the Academic Review Sub-committee, according to the procedures outlined in Section VIII of the Undergraduate Calendar under “Academic Consideration, Appeals and Petitions”.

3. Academic Related Appeals
a. If the student is required to withdraw from the Co-op Education program because he/she does not attain the 70% cumulative average required and wishes to appeal this decision, the appeal must be submitted to the Academic Review Sub-committee, according to the procedures outlined in Section VIII of the Undergraduate Calendar under Academic Consideration, Appeals and Petitions.

b. If the student wishes to appeal an “Unsatisfactory” Work Report Evaluation, the appeal must be submitted according to the regulations outlined in Section VIII of the Undergraduate Calendar under Grade Reassessment.

Petitions
The Senate Committee on Student Petitions is comprised of students, faculty, and a representative of the Office of Registrarial Services. It is responsible for assessing and disposing of cases submitted to it by any undergraduate or graduate student of the University. The Senate Committee on Student Petitions will consider petitions and conduct hearings on requests which fall under one of the following:

1. Appeals of decisions of Academic Review Sub-committees involving medical, psychological or compassionate grounds. Petitions have the same options for consideration available to it as the Academic Review Sub-committee (see Academic Consideration).

2. Appeals of academic misconduct decisions.

3. Petitions concerning the methods and criteria used by an instructor in assigning a grade. The Committee does not consider appeals for grade reassessment unless the request concerns the methods and criteria used by the instructor.

4. Appeals of an Admissions Committee decision regarding readmission to a program. The Committee will consider appeals concerning readmission provided the appeal is on the grounds of procedural unfairness or bias on the part of the Admissions Committee.

Petitions Concerning a Course Grade(s) Involving Medical, Psychological or Compassionate Grounds
A student may appeal any decision of the Academic Review Sub-Committee to Petitions. The appeal must be submitted to the Office of the Judicial Officer within 90 days of receiving notification of the decision. Requests submitted after this deadline will not normally be considered.

Students should speak to the Judicial Officer before submitting a petition to ensure proper completion of the form.

The Committee will normally consider a petition concerning an illness or incident that occurred at some time in the past unless there is a reasonable explanation for the delay in submitting the petition.

Petitions Concerning Methods and Criteria Used by an Instructor in Assigning a Course Grade
Before submitting such a petition the student must have submitted a written appeal to the chair of the department of the instructor assigning the course grade and have received from the chair of the department a written statement that every effort has been made at the departmental level to resolve the issue. The student must provide the Judicial Officer with a clear and concise statement of the allegations.

Academic Accommodation of Religious Obligations
The University acknowledges the pluralistic nature of the graduate and undergraduate communities. Accommodation will be made to students who experience a conflict between a religious obligation and scheduled tests, mid-term examinations, final examinations, or requirements to attend classes and participate in laboratories. The type of accommodation granted will vary depending on the nature, weight and timing of the work for which accommodation is sought. Accordingly, the request for alternative arrangements normally must be submitted to the instructor in charge of the course within two weeks of the distribution of the course outline. A student requiring accommodation may submit the request to the instructor directly or through his/her program counsellor. The instructor has a responsibility to provide reasonable alternative arrangements that do not put the student at an academic disadvantage. In the case of a conflict with a final examination, the instructor should reschedule the examination to another time during the examination period taking care that the new date and time does not put the student at an academic disadvantage.

In the event that a student is not satisfied with the accommodation offered by the instructor, he/she may appeal to the Department Chair, or Director of the School, who may grant alternative accommodation. A student who remains dissatisfied with the outcome of his/her request may seek the assistance of the Human Rights and Equity Office to facilitate a resolution.

For a current list of major holy days, please check the following website [link] or contact the Human Rights and Equity Office.

Academic Accommodation for Students with Disabilities, Guidelines and Procedures
The purpose of these guidelines and procedures (“Guidelines”) is to support the implementation of the Policy on Academic Accommodation for Students with Disabilities (“Policy”), as approved by Senate. In the event of a discrepancy between the Policy and these Guidelines, the Policy will apply.

The provision of academic accommodation is a shared responsibility between the University and the student requesting accommodation. It is recognized that academic accommodations are intended to “level the playing field” for students with disabilities but are not intended to give students an advantage.

The following definitions shall apply in these guidelines and procedures:

“Academic Integrity” is defined as the essential academic requirements of a course of program which includes but is not limited to the knowledge and skills which are necessary to meet the learning objectives.

“Chair” means head of an academic unit and includes a Department Chair or School Director.

“CSD” means the Centre for Students with Disabilities at the University. CSD is the unit designated to assist the University community in integrating students with disabilities into all aspects of the University’s academic life.

“Course Instructor(s)” is defined as the individual(s) teaching the course, or in the case of graduate students, can include a faculty advisor or advisory committee.

“Dean” means the dean of the college who has responsibility for the course or program.

“Disabilities” shall have the same meaning as under the Ontario Human Rights Code in force and as amended from time to time, and may include but is not limited to:

- Learning disabilities
- Attention deficit-hyperactivity disorder
- Hearing and/or vision disabilities
- Medical disabilities
- Physical disabilities
- Acquired brain injuries
- Psychological/emotional disabilities

“Examinations” include but are not limited to midterms, tests, quizzes, lab examinations or final examinations, competency examinations and defences.

1. Admissions
a. In its admission and liaison activities, the University actively encourages applications from individuals with disabilities. After receiving their application, the University will provide upon request, admissions information in alternate forms (Braille, electronic, etc.) as required. Applicants who require accommodation during the admission process are strongly encouraged to identify their disability related needs directly to the Centre for Students with Disabilities (CSD).

b. Applicants who believe that as a result of their disability their admission average does not reflect their academic ability are encouraged to identify their disability by completing the appropriate form available from the CSD. Applications for admission are considered in light of the information and documentation provided with respect to the applicant’s disability and the impact on his/her academic record.
c. Applicants are advised that decisions concerning specific forms of academic accommodation are made with consideration of the learning objectives of a specific course or program. Acceptance to the University does not guarantee the granting of any specific form of academic accommodation. If an applicant believes that his or her choices concerning a specific course or program may be affected by the specific forms of academic accommodation granted by the University, the applicant should contact the CSD as early in the application to a program or course selection process as possible.

2. Registration with the CSD
Students with disabilities who have been admitted to the University and who require academic accommodation either in-course or during Examinations must normally register with the CSD no later than the 40th class day.

3. Documentation Requirements
Students requesting academic accommodation must provide appropriate documentation satisfactory to the University. The assessment must be comprehensive and reflect the student’s learning needs in a university setting and support the requested accommodation. Specific documentation requirements are as follows:

a. Documentation for students with learning disabilities must include a current1 psycho-educational assessment report that contains a diagnosis of a learning disability. It must be completed and signed by a registered psychologist or a registered psychological associate to support these requests.

b. Documentation to support medical or psychological disabilities must be from a qualified professional(s) and include: a statement of the diagnosis and nature of the disability; information on the severity, duration and intensity of the disability; and, whether the disability is permanent or temporary.

Documentation will need to be renewed as appropriate to reflect the student’s on-going need for academic accommodation.

1 “Current” is generally defined as occurring within the last three years, or having a diagnosis at 18 years of age or older. Documentation that is more than three years old will be evaluated on a case-by-case basis.

4. Academic Accommodation
Examples of academic accommodations available may include, but are not limited to:

- Advanced provision of reading lists and other course materials to allow for alternate format transcription;
- Alternate scheduling for the completion of course, project, thesis work, or Examinations, including competency examinations;
- Extensions to program completion time limits;
- Use of assistive technology in the classroom/ laboratory/ field (e.g. FM systems worn by Course Instructors);
- Use of oral and visual language interpreters and/ or note takers in the classroom;
- Use of audio and or visual recording of lectures;
- Use of adaptive technology;
- Support for Examinations including extra time, a private room, use of a computer, adaptive software or word processor, or access to a reader or scribe as needed;
- Special seating; wheelchair accessible tables;
- Adjustments to lighting or ventilation.

5. Provision of Academic Accommodation - General
a. A number of factors can affect the timeliness of decisions regarding accommodations including but not limited to the adequacy of documentation, the nature of the accommodation requested and the timing of the request. Students are strongly encouraged to engage in the process of requesting accommodation early. Timelines for submission of certain kinds of requests are identified in Sections 5, 6 and 7.

b. The CSD has authority to make decisions for academic accommodation in accordance with Section 6. Other forms of academic accommodation are decided in accordance with Section 7. CSD advisors can help to identify appropriate academic accommodations, provide supportive information required in order to access resources, and assist in the arrangements for appropriate academic accommodations.

c. Students registered with the CSD who need to have textbooks produced in alternate format (e.g., DAISY, Braille, large print, or e-text) must make the request directly to the Library Accessibility Services at least two months prior to the start of classes. Students with disabilities should consult the course outline prior to the commencement of the class to determine the required readings.

6. Provision of Academic Accommodation - CSD
a. Requests for certain forms of academic consideration can be approved directly by the CSD. These include requests for:

- note taking;
- arrangements for appropriate seating in a classroom;
- the writing of Examinations in the CSD Exam Centre to facilitate the use of extra time, a private room, use of a computer, adaptive software or word processor, or access to a reader or scribe, as needed.

b. Students who have been approved to write mid-term Examinations in the CSD Exam Centre must normally schedule their examination times with CSD at least 7 days prior to the scheduled examination date.

c. Students who have been approved to write final Examinations in the CSD Exam Centre must normally schedule their examination times with the CSD no later than the 40th class day of the semester.

d. Where Examinations are written in the CSD Exam Centre, the CSD is responsible for informing the department/ school of the names of those students who will be writing in the CSD at least three working days prior to the scheduled date of the Examination. The CSD will return the Examination to the department/ school the first working day following the Examination. Unless there is agreement otherwise with the Course Instructor, all Examinations written in the CSD Exam Centre shall be administered at the same time as the scheduled course Examination.

7. Provision of Academic Accommodation - Undergraduate Students
a. Requests for academic accommodation not included in Section 6 (e.g., alternate formats for Examinations, or alternate dates for Examinations) must be reached on a case by case basis. For these types of requests, the CSD will provide the Course Instructor with formal written notification of the need for the academic accommodation as supported by the student’s documented assessment (“Notification”). Course Instructors are encouraged to contact the CSD to discuss the request if the accommodation requested by the student is not consistent with the Notification, or if there are questions related to the impact of the accommodation on the Academic Integrity of the course.

b. Students requesting accommodations for in-course academic deadlines (ie. extension of an assignment) must submit those requests to the Course Instructor at least 7 days prior to the in-course academic deadline.

c. If, in consultation with the Chair, consensus still cannot be reached on the type(s) of academic accommodation to be provided, the Chair shall provide within 5 working days a report to the Dean (or designate). The Chair’s report will include the Notification from the CSD, information on the Academic Integrity of the course or program, if applicable and the type(s) of academic accommodation proposed. Within 5 working days of the receipt of this report, the Dean (or designate) shall make the decision on the type(s) of academic accommodation to be provided and advise the parties.

8. Appeal Process
Decisions made under Sections 6 or 7 may be appealed by the student to the Senate Committee on Student Petitions (“Petitions”) in accordance with Petitions’ Bylaws and Regulations.

Academic Load

Full-time

The normal full-time semester load for academic programs is 2.50 credits except where otherwise prescribed by the schedule of studies.

Under the credit system, credit weight reflects student workload rather than contact hours. Students should note that 10 to 12 hours of academic time and effort per week (including classes) are expected for a 0.50 credit course. Exceeding the normal credit load for the program can place the student at academic risk and should be carefully considered in consultation with the Program Counsellor.

Part-time

A student who is registered in fewer than 2.00 credits in a semester is considered to be part-time.

Academic Misconduct

Academic misconduct is behaviour that erodes the basis of mutual trust on which scholarly exchanges commonly rest, undermines the University's exercise of its responsibility to evaluate students' academic achievements, or restricts the University's ability to accomplish its learning objectives.

The University takes a serious view of academic misconduct and will severely penalize students, faculty and staff who are found guilty of offences associated with misappropriation of others' work, misrepresentation of personal performance and fraud, improper access to scholarly resources, and obstructing others in pursuit of their academic endeavours. In addition to this policy, the University has adopted a number of policies that govern such offences, including the policies on Misconduct in Research and Scholarship and the Student Rights and Responsibilities regulations. These policies will be strictly enforced.
It is the responsibility of the University, its faculty, students and staff to be aware of what constitutes academic misconduct and to do as much as possible through establishment and use of policies and preventive procedures to limit the likelihood of offences occurring. Furthermore, individual members of the University community have the specific responsibility of initiating appropriate action in all instances where academic misconduct is believed to have taken place. This responsibility includes reporting such offences when they occur and making one's disapproval of such behaviour obvious.

University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students should also be aware that if they find their academic performance affected by medical, psychological or compassionate circumstances, they should inform the appropriate individuals (instructors, program counsellors, graduate advisors) and follow the available procedures for academic consideration outlined in the University's calendars.

Education and Remediation

Education and remediation are key to promoting an environment in which academic integrity will flourish. It should not be possible for a student to claim that he/she was not warned about the University's academic misconduct regulations, what constitutes academic misconduct and the potential consequences of transgressing. The need to educate students about academic integrity places a particular responsibility on faculty, especially with respect to discipline-specific issues.

The University's Strategic Directions place high value on collaboration and co-operation in the learning process, across disciplines and between institutions. Further, the strategic plan recognizes the importance of students learning to work with others in group projects and situations as key to developing skills as self-reliant learners. This is reflected in the large number of courses at this University which involve group work and encourage co-operation in completing assignments. However, there may be need to limit the amount of collaboration or co-operation. Students need to be aware of, and instructors need to be clear about assignments for which discussing or completing the work with others is not appropriate and where the expectation is that students will work separately. Instructors should be very explicit about expectations with respect to academic integrity, and information with respect to academic misconduct should be presented to students as part of the course outline, academic program orientation materials and other materials posted and distributed to students. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

In addition, in the case of examinations, students should be sure that they read and understand the regulations with respect to conduct in examinations printed on the cover of each examination booklet, and should pay particular attention to any additional instructions from the examination invigilators.

In support of remediation, students convicted of an academic offence may be required to successfully complete an academic integrity remediation process.

Note: In this policy, the word “dean” means “dean or designated associate dean.” The word “chair” means “chair of a department or director of a school.” The word “department” means “department or school.”

Offences

Academic misconduct is broadly understood to mean offences against the academic integrity of the learning environment.

Below are descriptions of academic offences. It is important to note that, while the University has attempted to present as comprehensive a list as possible, this list of potential academic offences should not be considered exhaustive. Students are responsible for knowing what constitutes an academic offence and faculty members have a responsibility to provide students, early in their course or program, with information about academic integrity that might be particular to their discipline. An offence may be deemed to have been committed whether the student knew a particular action was an offence or ought reasonably to have known. Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

It is the responsibility of students working in a group to take all reasonable steps to ensure that work submitted to the group by individual members has not been completed in a way that violates this policy.

Further, as some academic offences may also be viewed as violations of policies on Misconduct in Research and Scholarship, the Student Rights and Responsibilities regulations, the criminal code and/or civil statutes, students may also be subject to procedures and penalties outlined in those policies at the University’s discretion, and to criminal prosecution or civil action.

A graduate of the University may be charged with an academic offence committed while he/she was a registered student when, in the opinion of the dean, the offense, if detected, would have resulted in a sanction sufficiently severe that the degree would not have been granted at the time that it was.

1. Misappropriation of Other's Work

1. Plagiarism

Plagiarism is misrepresenting the ideas, expression of ideas or work of others as one's own. It includes reproducing or paraphrasing portions of someone else's published or unpublished material, regardless of the source, and representing these as one's own thinking by not acknowledging the appropriate source or by the failure to use appropriate quotation marks. In addition to books, articles, papers and other written works, material may include (but is not limited to): literary compositions and phrases, performance compositions, chemical compounds, art works, laboratory reports, research results, calculations and the results of diagrams, drawings, computer reports, computer code/software, and material on the internet. Some examples of plagiarism include:

- submission of a take-home examination, essay, laboratory report or other assignment written, in whole or in part, by someone else;
- using direct, verbatim quotations, paraphrased material, algorithms, formulae, scientific or mathematical concepts, or ideas without appropriate acknowledgment in any academic assignment;
- using another’s data or research findings;
- buying or selling term papers or assignments;
- submitting a computer program developed in whole or in part by someone else, with or without modifications, as one’s own;

Students have the responsibility to learn and use the conventions of documentation suitable to the discipline, and are encouraged to consult with the instructor of the course, the academic supervisor, or the department chair for clarification if needed. Instructors should include in the materials they provide to students about academic integrity, information about any unique, discipline-specific understandings with respect to what must be acknowledged or cited.

1. Copying

Copying is similar to plagiarism in that it involves the appropriation of others’ work as one’s own. It includes copying in whole or in part another’s test or examination answer(s), laboratory report, essay, or other assignment. Copying also includes submitting the same work, research or assignment for credit on more than one occasion in two or more courses, or in the same course, without the prior written permission of the instructor(s) in all courses involved (including courses taken at other post-secondary institutions).

3. Unauthorized Co-operation or Collaboration

It is an offence to co-operate or collaborate in the completion of an academic assignment, in whole or in part, when the instructor has indicated that the assignment is to be completed on an individual basis.

In addition to being concerned about appropriate citation, students who wish to use the work of others, from any source, should be aware of copyright laws and other conventions governing intellectual property. See the Office of Research website, [http://www.uoguelph.ca/research/](http://www.uoguelph.ca/research/) for links to the University’s intellectual property policies.

2. Misrepresentation and Fraud

This category of offences covers a range of unacceptable activities, including the following:

1. Impersonation

Impersonation involves having someone impersonate oneself, either in person or electronically, in class, in an examination or in connection with any type of academic requirement, course assignment or material, or of availing oneself of the results of such impersonation. Both the impersonator and the individual impersonated (if aware of the impersonation) are subject to disciplinary proceedings under this policy.

2. Falsification

It is an offence to submit or present false or fraudulent assignments, research, credentials, or other documents for any academic purpose. This includes, but is not limited to:

- falsified research or lab results and data;
- concocting facts or reference;
- false medical or compassionate certificates;
- false letters of support or other letters of reference;
- falsified academic records, transcripts or other registrarial records;
- fraudulent submission practices (e.g., altering date stamps);
- altering graded work for re-submission.

It is also falsification to misrepresent the amount of work an individual has contributed to a group assignment or activity. Both the individual to whom work is falsely attributed and those who acquiesce in its attribution commit an academic offence.

3. Withholding

It is an offence to withhold records, transcripts or other academic documents with the intent to mislead or gain unfair academic advantage.

4. Unauthorized Aids and Assistance
It is an offence to use or possess an unauthorized aid, to use or obtain unauthorized assistance, or to use or obtain prohibited material in any academic examination or term test or in connection with any other form of academic work. Such aids or material may include, but are not limited to, specific documents, electronic equipment or devices, and commercial services (such as writing, editorial, software, or research survey services). Students should assume that any such aid is prohibited unless they are specifically advised otherwise by the instructor or invigilator. Note that unauthorized assistance does not include student support services offered by the University, such as the Learning Commons.

3. Improper Access and Obstruction

1. Preventing Access to Materials
   It is an offence to alter, destroy, hide, remove without authorization, or in any other way improperly restrict access to library, electronic or other materials intended for general academic use.

2. Obstruction and Interference
   It is an offence to obstruct or otherwise interfere with the scholarly activities of another, or to alter or falsify the work of others, in order to gain unfair academic advantage. This includes, but is not limited to, deleting data or files, interfering or tampering with experimental data, with a human or animal subject, with a written or other creation (for example, a painting, a sculpture, a film), with a chemical used for research, or with any other object of study or research device.

3. Improper Access
   It is an offence to improperly obtain through theft, bribery, collusion, or otherwise access to confidential information, examinations or test questions or to gain undue academic advantage as a result of such behaviour.

4. Improper Dissemination
   It is an offence to publish, disseminate or otherwise make public to a third party without prior written consent, confidential information. Confidential information includes but is not limited to academic information, data or documents which are not otherwise publicly available and which have been gathered or held with a reasonable expectation of confidentiality.

4. Aiding and Abetting
   Knowingly aiding or abetting anyone in committing any form of academic misconduct is itself academic misconduct and subject to this policy.

Penalties

A. Range of Penalties That May Be Assessed
   If a student is found guilty of academic misconduct, an Official Warning will be given that an offence is now noted in the student’s record and that a subsequent offence will attract a more severe penalty. In addition, one or more of the following penalties may be assessed:
   1. A requirement for submission of a new or alternative piece of work.
   2. The rescinding of University-funded scholarships or bursaries.
   3. Partial or total loss of marks on the examination or assignment in which the offence occurred.
   4. Partial or total loss of marks for the course in which the offence occurred.
   5. Suspension from the University for a period of between one and six consecutive semesters. For the period of suspension, a student will not be permitted to register and will retain none of the privileges accorded to students with respect to right of access to University faculty, staff, facilities or services.
   6. A recommendation for expulsion from the University.
   7. A recommendation for revocation/rescinding of a degree. A person who is found guilty of academic misconduct after having been approved for graduation, or after having a degree conferred, may have the degree rescinded or revoked when, in the opinion of the dean, the offence, if detected, would have resulted in a sanction sufficiently severe that the degree would not have been granted at the time that it was.

B. Notes with Respect to Penalties
   The following should be noted with respect to penalties:
   1. Senate has approved a set of Guidelines for the Assessment of Penalties for Academic Misconduct. These guidelines are used by chairs/directors and deans to assist them in determining appropriate penalties for individual cases. A copy of the guidelines can be found at http://www.uoguelph.ca/undergrad_calendar/08/08-ac-misconduct.shtml, or may be obtained from the Senate Office or the office of any chair or dean.
   2. Students who have been found guilty of a course-based offence and who have been assessed a penalty in addition to an Official Warning will not be permitted to drop the course or to withdraw with failure. A student who has dropped the course prior to the offence(s) being detected will have his/her enrolment in the course reinstated if found guilty and if the penalty assessed is other than an Official Warning.
   3. Students who have been suspended for academic misconduct will not receive credit for any courses taken while under suspension. This policy applies to any credit course taken during the suspension period, be it distance, or non-campus, taken in open learning programs at the University of Guelph or at another post-secondary institution. In addition, in the case of graduate students, any research or writing completed during the suspension period may not be submitted in fulfillment of program requirements once the period of suspension is concluded.
   4. A student who wishes to be considered for readmission after a suspension must make an application that will be judged on the basis of eligibility to continue. A student who is suspended for academic misconduct and also fails to meet the continuation of study requirement will normally be required to serve the associated penalties consecutively.
   5. A student who has been expelled from the University of Guelph is not eligible for re-election to the University for at least five years. A student who wishes to be considered for readmission must petition the President to have the expulsion status removed. The President will form a hearing committee to review the case for lifting the admission restriction. If the committee decides to remove the expulsion status, the student who wishes to be considered for readmission must then make an application that will be judged on the basis of eligibility to continue. If the committee decides to leave the expulsion status in place, the student must wait at least another two years before submitting a new petition.
   6. Penalties may be applied retroactively if an offence is discovered subsequent to completion of a course or after graduation.

Procedures

A. Notes Re: Procedures and Authority to Act
   1. Deans may delegate their authority under this policy to an appropriate designate(s). Such delegation may be full (for example, all cases are delegated to an Associate Dean), or partial (for example, authority with respect to offences related to course work may be delegated to departmental chairs). Deans must provide the University’s Judicial Officer with the name(s) of individual(s) to whom authority has been delegated under this policy.

   2. For offences related to course work (including examinations):
      a. The designate or the Director of Open Learning will carry out the role of the chairman in cases where the offence has been committed in an Open Learning, non-degree credit course. Degree credit courses offered through distance are within the authority of the chair of the department offering the course. The role of the chairman in the case of non-degree credit courses offered through the Open Learning program is carried out by the Director of Open Learning.
      b. For undergraduate students and open learners, the relevant dean is the dean of the college in which the course is offered, and the dean of the college in which the student is enrolled (if different) should receive a copy of the decision. In the event that an offence is committed in a degree credit course by an open learner, the Director of Open Learning should receive a copy of the decision.
      c. For graduate students, the relevant deans are the dean of the college in which the course is offered and the Dean of Graduate Studies acting jointly. The dean of the college in which the student is enrolled (if different) should receive a copy of the decision.

   3. For offences not related to courses, or for course offences involving students not enrolled in the course, for undergraduate students the dean of the college in which the student is enrolled is responsible for administering the policy. For graduate students, the policy is administered jointly by the Dean of Graduate Studies and the dean of the college in which the student is enrolled.

   4. In the event that a chair/director has a conflict of interest in dealing with a case, the dean will appoint another faculty member to deal with the case. In the event that a dean’s designate has a conflict of interest in dealing with a case, the dean may appoint an alternate designate or choose to deal with the case himself/herself. In the case of a conflict of interest on the part of a dean, the Provost will appoint a designate to deal with the case.

   5. Wherever in this policy it states that a student is to be contacted, the normal expectation is that such contact will be made using the student’s University of Guelph email account, with a copy of any correspondence being sent to the home address provided to the University by the student.

B. Detection and Documentation

1. Examinations
   The responsibility for preventing and detecting academic misconduct in an examination lies with the invigilators, although they make use of reports from others to assist them in detection. In cases of suspected impersonation, the chief invigilator shall require the student concerned to remain after the examination until the student is satisfactorily identified. In other cases of suspected academic misconduct, the chief invigilator shall allow the student to complete the examination, but:
   • may require that the student complete the examination in another location or setting when it is deemed that such action will cause the least disruption of those taking the examination; and
shall confiscate any suspect material (including those portions of the examination completed to that point) and give it, along with the student’s other examination booklet(s) (collected at the end of the exam) to the instructor immediately following the examination.

The chief invigilator shall give a full report, together with any confiscated material, to the instructor-in-charge of the course if the instructor is not the chief invigilator. In instances of open learning courses, the material will be submitted to the Director of Open Learning. The student is required to contact the instructor no later than the end of the examination period.

2. Term assignments, including research and thesis work

The initial responsibility for detecting academic misconduct on term assignments, etc., necessarily lies with the person(s) responsible for evaluation and discussion of the student’s work, although that person may make use of reports from others to assist in detection, and may make use of electronic means of detection appropriate to the discipline. Where academic misconduct is suspected, the evaluator/marker shall retain possession of any suspect material and give a full report in writing together with any confiscated material to the instructor-in-charge of the course, or to the student’s advisor, if the instructor/advisor is not the evaluator/marker. At this stage, the student will be informed by the instructor/advisor that a suspicion of academic misconduct is being investigated.

3. Cases outside the domain of examinations or assignments

The responsibility for detecting academic misconduct in the context of an academic environment that is not part of the formal examination or assignment process rests with the entire University community. Where academic misconduct is suspected, but where it is unclear whether it is directly related to a specific course, or where the specific course is unknown, those with knowledge of an offence should contact the dean of the college in which the student is enrolled and the Dean of Graduate Studies in the case of a graduate student. If the suspected offence appears to be related to a specific course, then the instructor of the course should be contacted.

C. Investigation and Judgment

1. Offences Related to Course Work, Research, Thesis Work or Examinations

a. When an instructor or an advisor suspects that an academic offence has been committed, he/she is responsible for gathering evidence to support or allay the suspicion and may invite the student to meet with him/her to discuss the concerns. The instructor/advisor should pursue the gathering of evidence in a timely way. The normal expectation for assignments due within the semester is that instructors/advisors will complete their evidence gathering within ten working days of the due date for the assignment. For assignments submitted at the end of the semester or during the examination period, the instructor has until the tenth day of the subsequent semester to collect the evidence and determine whether to pursue a case. In a case where an instructor/advisor requires substantial additional time to collect and review the evidence, he/she may seek an extension of time from the chair.

b. If after reviewing the available evidence the instructor/advisor believes an offence may have been committed, he/she shall refer the case to the chair of the department responsible for the course or graduate program. The referral document will include all evidentially material collected by the instructor/advisor along with the transmittal form on which the instructor/advisor may include a recommendation with respect to penalty should the allegation be upheld. A copy of the first page of the transmittal form shall be sent to Enrolment Services/Office of Graduate Studies by the chair.

c. If the chair believes that there is sufficient evidence to support a charge of academic misconduct, he/she will forward the transmittal form and all evidentiary material to the dean/dean’s designate, normally within ten working days of receipt of the allegation from the instructor/advisor.

d. Normally within ten working days of receipt of the case from the chair, the dean will invite the student to meet with him/her to discuss the allegation(s). If the student does not respond within ten working days to the request for an interview, or if the student refuses to attend an interview, the dean may proceed with the case. The student may be accompanied at the meeting by a support person. Prior to meeting with the student, the dean may consult with any individuals he/she believes pertinent to the case. At the meeting, the student will be presented with the evidence collected by the dean to that point. Based on the student’s response to the evidence, the dean may engage in further consultation with any individuals he/she deems pertinent to the case. The student will be informed of any other evidence gathered as a result of those consultations and be given an opportunity to respond prior to the dean’s reaching a decision on the case.

e. If after weighing the available evidence the dean finds an offence has been committed, the dean will contact Enrolment Services/Office of Graduate Studies as appropriate to determine whether this is a first offence.

f. In determining the appropriate penalty, the dean will consult the Guidelines for Penalties for Academic Misconduct, will take into consideration the recommendation from the instructor/advisor, and consider such factors as the relative weight of the assignment, the semester level of the student, any record of previous offences, the seriousness of the offence (e.g., the amount of work plagiarized), and any mitigating circumstances presented by the student. For graduate students, attention will also be paid to whether the work in which the offence has been committed is one of the major milestones of the graduate program (e.g., qualifying examination, thesis).

g. Normally within ten working days of the meeting with the student, or ten days from the date of the final communication with the student with respect to any additional evidence, the dean will inform the student in writing of the disposition of the case. In a case where the dean requires substantial additional time to review the evidence and come to a judgment, she/he may seek an extension of time from the Provost.

Should the dean determine that an academic offence has not been committed he/she shall so inform the student, the instructor/advisor and the chair in writing. A copy of the letter will be forwarded to Enrolment Services/Office of Graduate Studies as appropriate. Thereafter, the complaint shall have no official status as an accusation of academic misconduct and no record of the complaint shall be maintained on the student’s record.

Should the dean determine that an academic offence has been committed, he/she shall inform the student in writing. The written notification should include the offence for which the student has been found guilty and information with respect to penalty. Copies of the written notification should be sent to any other relevant dean(s) office(s), to the instructor/advisor, the department chair, the program counsellor and to Enrolment Services/Office of Graduate Studies (as appropriate).

h. In a case where the dean believes suspension or a recommendation for expulsion/revocation is warranted, he/she should consult with the Provost and Vice-President Academic before making a final determination with respect to penalty.

i. Should the dean recommend expulsion or revocation/rescinding of a degree, he/she shall so inform the student in writing and forward the matter to the Senate Committee on Student Petitions.

At that time, the student may appeal the recommendation of expulsion/revocation and request a hearing of the Senate Committee on Student Petitions. Whether or not a hearing is requested, the Senate Committee on Student Petitions will proceed with the case and inform the parties involved of its decision.

In the case of an expulsion, the Senate Committee on Student Petitions may decide to uphold the recommendation to expel, in which case the recommendation will be forwarded to the President for final decision. Alternatively, the Senate Committee on Student Petitions may decide to impose a lesser penalty, in which case the President’s assent is not required. When a recommendation is referred to the President, the President may uphold the recommendation to expel or impose a lesser penalty, which will be final.

In the case of revocation/rescinding of a degree, if the Senate Committee on Student Petitions confirms the recommendation of rescinding/revocation of a degree, the recommendation will be forwarded to the President. If the President does not confirm the recommendation of rescinding/revocation of a degree, the President may impose a lesser penalty, which will be final. If the President confirms the recommendation, the recommendation will be forwarded to Senate for final decision with respect to revocation/revocation. If the Senate does not confirm the recommendation of revocation/rescinding, the matter will be returned to the President for a final decision with respect to a lesser penalty.

A statistical record will be kept by the Office of the Dean for annual reporting purposes.

2. Other Offences

a. Cases involving offences that are not course-related or are not related to graduate program work are dealt with by the relevant dean (see Procedures A, Notes Re: Procedures and Authority to Act). Examples of such offences include, but are not limited to falsification of credentials for admission purposes, damaging of library materials, abetting the cheating of another in a course in which the abettor is not enrolled, and obstructing or interfering with the academic activities of others.
h. When a case is brought to the attention of the dean, the dean shall inform the student that an allegation has been made and invite the student to meet to discuss the allegation. The dean will also inform Enrolment Services/Office of Graduate Studies (as appropriate). If the student does not respond within ten working days to the request for an interview or refuses to attend an interview, the dean may proceed with the case. The student may be accompanied at the meeting by a support person. Prior to meeting with the student, the dean may meet with any individuals or collect evidence as he/she deems pertinent to the case. At the meeting, the student will be presented with the evidence collected by the dean to that point. Based on the student's response to the evidence, if necessary the dean may consult with any other individuals he/she deems pertinent to the case. The student will be informed of any other evidence gathered as a result of those consultations and be given an opportunity to respond prior to the dean's reaching a decision on the case.

c. If after weighing the available evidence the dean finds that an offence has been committed, the dean will contact Enrolment Services/Office of Graduate Studies as appropriate to determine whether this is a first offence. The dean may impose penalties in accordance with Penalties A. and B., above. In the event that the dean believes suspension, expulsion or revocation to be warranted, he/she shall proceed as in Procedures C.1. (b) and (i).

d. Normally within ten days of meeting with the student, or of the final communication with the student with respect to evidence, the dean shall inform the student in writing of his/her decision in the case, and copy the letter to the relevant university officials, including Enrolment Services/Office of Graduate Studies (as appropriate). In a case where the dean requires substantial additional time to gather evidence and make a judgment, he/she may seek an extension from the Provost and Vice-President Academic.

Appeals

1. Students may appeal either the finding, the penalty, or both to the Senate Student Petitions Committee.

2. Appeals must be submitted to the Senate Student Petitions Committee within 15 working days of receipt of the decision. If the decision is mailed, it will be deemed to have been received by the student the fifth day after it has been mailed. If the decision is sent by courier, fax or email it shall be deemed to have been received one day after it has been sent.

3. An appeal to the Senate Committee on Student Petitions involves an examination of all relevant documents and evidence to determine the appropriateness of a finding of guilt or of the assessed penalty. The procedures for conducting an appeal and for holding a hearing are set out in the Regulations of the Senate Committee on Student Petitions. Following an appeal or hearing, the Senate Committee on Student Petitions may take one or more of the following courses of action:
   a. confirm a finding of guilt;
   b. reverse a finding of guilt (in which case no penalty shall apply);
   c. confirm a penalty;
   d. assess a different penalty.

Record of Academic Misconduct

Enrolment Services, or the Assistant VP of Graduate Studies, or the Director of Open Learning as appropriate, shall place in the student's file a record of all academic misconduct for which the student is penalized. Students in the Associate Diploma Program who are found guilty of academic misconduct in an Independent Study course taken through OAC Access towards their Associate Diploma will have the record of the finding of guilt placed against the appropriate term.

The record of academic misconduct shall be expunged from the student's file upon graduation, or for open learners, upon completion of a certificate or diploma. Students who do not graduate from the University of Guelph or another university may submit an application to the Senate Committee on Student Petitions to have the record expunged no sooner than five years after the date of last registration. Students who have graduated at another accredited university may submit verification of graduation to Enrolment Services/Office of Graduate Studies and have their record expunged. The record for expulsion is permanent, unless removed by petition to the President.

Access to the record of academic misconduct will be limited to those involved in processing appeals and those involved in processing additional complaints against the student.

Note: Template letters to students, forms for Enrolment Services and Office of Graduate Studies, and suggested wording for course outlines are available from the Judicial Office.

Guidelines for Penalties for Academic Misconduct

With the finding of academic misconduct, there is a mandatory penalty of Official Warning which will stay on the student's record until graduation. In addition, one or more other penalties may be assessed. Following are guidelines used by chairs/directors and deans in determining the appropriate additional penalties. Users need to be aware that these are guidelines and that not all cases will fit neatly into the categories.

The guidelines below provide a range of penalties (minima and maxima) for the various offences identified in the Policy on Academic Misconduct as well as indicate what penalty is deemed to be the “norm” for the offence in the case of a first or second year student. It should be noted that “subsequent offence” means any subsequent offence, not only a subsequent offence in the same category.

For a course-based offence, the chair/director may assign penalties up to and including loss of grades if the offence is a first offence. If there is a previous offence on the student’s record, or if the chair/director believes a stronger penalty is merited, the case is forwarded to the dean for penalty assessment.

In cases where the dean is of the opinion that there is cause for a penalty different from those indicated in the guidelines (either higher or lower), she/he will review the penalty with the Provost and Vice-President Academic. The dean will also consult with the Provost in cases where the contemplated penalty is suspension or expulsion.

In a case where the dean is of the opinion that the finding of guilt is not supported by the evidence, the dean will review the case with the chair/director. If the chair/director and dean are unable to reach an agreement on the case, the dean will consult with the Provost before making final determinations as to the finding of guilt and any penalty to be applied in the event that dean upholds the finding of guilt.

In determining the appropriate penalty the chair/director or dean will take into consideration these guidelines, the recommendation from the instructor, the recommendation from the chair/director (in the case of a dean assigning a penalty), and any other relevant factors such as the relative weight of the assignment, the semester level of the student, the seriousness or extent of the offence (e.g. the amount of work plagiarized), any record of previous offences, and any mitigating circumstances presented by the student.

Guidelines for Penalties for Academic Misconduct in Addition to Official Warning

A. Misappropriation of Other's Work

In the tables below (N) indicates the normal expectation for penalty for a first or second year undergraduate, or first year graduate student.

1. Plagiarism

Misappropriation of Other’s Work - Plagiarism

<table>
<thead>
<tr>
<th>Offences</th>
<th>First Offence</th>
<th>Subsequent Offences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor</td>
<td>Resubmission of new work (N) Loss of grades Zero on the assignment</td>
<td>Loss of grades (N) Zero on the assignment Zero in the course Loss of scholarship/bursary Suspension</td>
</tr>
<tr>
<td>Major</td>
<td>(N) Zero in the course Loss of scholarship/bursary Suspension</td>
<td>Zero in the course Loss of scholarship/bursary Suspensions (N) Suspension Expulsion/Revocation</td>
</tr>
</tbody>
</table>

2. Copying

Misappropriation of Other’s Work - Copying

<table>
<thead>
<tr>
<th>Offences</th>
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</thead>
<tbody>
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<td>Zero in the course Loss of scholarship/bursary Suspensions (N) Suspension Expulsion/Revocation</td>
</tr>
</tbody>
</table>

3. Unauthorized Collaboration

Misappropriation of Other’s Work - Unauthorized Collaboration

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Minor</td>
<td>Resubmission of work (N) Loss of grades Zero on the assignment</td>
<td>Loss of grades (N) Zero on the assignment Zero in the course Loss of scholarship/bursary Suspension</td>
</tr>
<tr>
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<td>Zero in the course Loss of scholarship/bursary Suspensions (N) Suspension Expulsion/Revocation</td>
</tr>
</tbody>
</table>
B. Misrepresentation and Fraud

1. Impersonation

Misrepresentation and Fraud - Impersonation

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<tr>
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<tr>
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<td>(N) Zero on the assignment</td>
<td>(N) Zero on the course</td>
</tr>
<tr>
<td></td>
<td>Zero in the course</td>
<td>Loss of scholarship/bursary</td>
</tr>
<tr>
<td></td>
<td>Loss of scholarship/bursary</td>
<td>Suspension</td>
</tr>
<tr>
<td>Major</td>
<td>Zero in the course</td>
<td>Zero in the course</td>
</tr>
<tr>
<td></td>
<td>Loss of scholarship/bursary</td>
<td>Loss of scholarship/bursary</td>
</tr>
<tr>
<td></td>
<td>(N) Suspension</td>
<td>Suspension</td>
</tr>
<tr>
<td></td>
<td>Expulsion/Revocation</td>
<td></td>
</tr>
</tbody>
</table>

2. Falsification

In addition to any penalty that may be applied, if a document is discovered to have been falsified, the document is null and void and the action permitted by the document is reversed.

If the falsified document is course-related (e.g. medical note) a zero in the course is the normal expectation for penalty for a first offence.

Misrepresentation and Fraud - Falsification

<table>
<thead>
<tr>
<th>Offences</th>
<th>First Offence</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Minor and Major</td>
<td>Resubmission of work</td>
<td>Zero in the course</td>
</tr>
<tr>
<td></td>
<td>Loss of grades</td>
<td>Loss of scholarship/bursary</td>
</tr>
<tr>
<td></td>
<td>Zero on the assignment</td>
<td>Suspension</td>
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<td></td>
<td>Expulsion/Revocation</td>
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</tbody>
</table>

3. Withholding of documents

If the withheld information would have affected admission to a course then a zero in the course is the normal expectation for penalty for a minor subsequent offence.

Misrepresentation and Fraud - Withholding of documents

<table>
<thead>
<tr>
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</tr>
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<tbody>
<tr>
<td>Minor and Major</td>
<td>(N) Official warning</td>
<td>(N) Zero in the course</td>
</tr>
<tr>
<td></td>
<td>Loss of grades</td>
<td>Loss of scholarship/bursary</td>
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<td></td>
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</tbody>
</table>

4. Unauthorized Aids

Misrepresentation and Fraud - Unauthorized Aids

<table>
<thead>
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<td>Loss of scholarship/bursary</td>
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<td></td>
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</table>

C. Improper Access and Obstruction

These offences may also be subject to penalty under the Student Rights and Responsibilities Policy.

1. Preventing Access

Improper Access and Obstruction - Preventing Access

<table>
<thead>
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</table>

2. Obstruction and Interference

Improper Access and Obstruction - Obstruction and Interference

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3. Improper Access

Improper Access and Obstruction - Improper Access

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4. Improper Dissemination

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Academic Review Sub-Committee Procedures

The Academic Review Sub-Committee of each program committee meets three times each semester as follows:

- after the third day of the add period.
- after the twentieth class day.
- after the last day of exams.

Refer to Section III--Schedule of Dates., for the submission deadlines for each of these meetings.

A request for academic consideration should be made by the student to the Academic Review Sub-Committee during, or immediately after, the semester to which it refers. If a student is appealing a required to withdraw decision, the student should submit the "Request for Academic Consideration" form by the first deadline of the next semester.

The Academic Review Sub-Committee will consider requests for academic consideration with regard to:

1. Course results (e.g. late drop of a course(s) with or without failure, deferred or supplemental privileges, credit status).
2. Meeting the continuation of studies requirements (e.g. probationary status).
3. Meeting the graduation requirements.

All requests are to be made in writing, preferably type-written, on the "Request for Academic Consideration" form available from Enrolment Services, Office of Registrarial Services, or the program counsellor. Request forms must be accompanied by relevant supporting documentation. Requests that are inadequately documented or that lack clarity will not be dealt with but will be returned to the student. The student should meet with the program counselor for advice on the preparation and submission of requests for academic consideration.

When the form is complete, the student should retain a copy along with copies of all documentation submitted. The form, with the original documentation attached, should be submitted to the student's program counsellor or to Enrolment Services, Office of Registrarial Services.

The Associate Registrar, Enrolment Services, or designate, shall prepare the agenda for each meeting of the Academic Review Sub-Committee, maintain a record of the sub-committee's decisions and immediately inform each student in writing as to the disposition of the request.

An appeal of an Academic Review Sub-Committee's decision may be submitted to the Senate Committee on Student Petitions within 90 days of the decision. Students who are appealing the decision of an Academic Review Sub-Committee for denial of probationary status will not be allowed to attend classes pending the outcome of the petition.

Academic Standing

Eligible to Continue

A student who does satisfy the program requirements for continuation of study will be eligible to continue.

Probationary

A student who does not satisfy the program requirements for continuation of study will be allowed to continue in his/her program if granted probationary status (see Continuation of Study in this section).
Required to Withdraw

A student who does not satisfy the program requirements for continuation of study will be required to withdraw from the University for a minimum of two semesters (see Continuation of Study in this section).

Students who do not satisfy the program requirements may appeal to the Academic Review Sub-Committee for probationary status to be granted based on medical, psychological or compassionate grounds.

Readmission to a program at the University of Guelph is not automatic. Students who are required to withdraw must apply for readmission to the University after completing the minimum two semesters of rustication. Students should consult Section IV--Admission Information regarding appropriate admission requirements and deadline dates.

A student who has been required to withdraw and who has made an appeal for probationary status to the Academic Review Sub-Committee will not be allowed to attend classes until such time that the appeal is granted.

A term academic standing is assigned to each completed semester according to the requirements of the Continuation of Study policy. A student whose term academic standing is Required to Withdraw according to the requirements of the Continuation of Study policy may have their term academic standing changed to "probation" as a result of a Request for Academic Consideration.

Adding Courses

All course additions to a student's program for a particular semester are to be completed by the end of the add period. On the last day of the add period, students will be able to add courses up to a maximum of 3.25 credits on a first-come, first-served basis. Additionally, with a signature from the program counsellor, under exceptional circumstances a student will be able to enrol in more than 2.75 credits earlier in the process.

The addition of a course after the end of the add period will be considered only in exceptional circumstances and will require the approval of both the instructor for the course and the program counsellor of the program in which the student is enrolled. The program counsellor's signature should be sought first but does not presume the judgment of the instructor as to the appropriateness of the late addition for his or her particular course. In practice, the following have been deemed to be exceptional circumstances: illness or compassionate grounds for missing all or part of the first three class days; interchanging courses with common lectures, one with and one without labs; late resolution of appeals; failure of a deferred course condition or examination; university errors in registration procedures.

Caution: Students granted permission to add a course after the end of the add period may encounter difficulty in mastering course content and may be unable to meet all course requirements. The University has no obligation to assist students to pick up material that has been missed because of late enrolment.

Course Requisite(s)

A student wishing to enrol in a course for which he/she does not have credit for the stated course requirement(s) may seek permission from the instructor to have the requisite(s) waived. The student seeking the waiver must obtain a "Course Requisite/Restriction Waiver" and have it completed by the instructor. The student must then present the completed form with a completed Course Request form to Enrolment Services for processing. Waiver forms are available from Enrolment Services, Office of Registrarial Services, Level 3, University Centre. [https://webadvisor.uoguelph.ca/st/index.shtml](https://webadvisor.uoguelph.ca/st/index.shtml)

Distance Education Courses

Distance Education courses may be added up to the end of the add period, with the permission of the Centre for Open Learning and Educational Support.

Program Approval

Program Approval is required to add courses if the student is adding more than the normal course load.

Regular Courses

Regular courses may be added without permission of the department. Regular courses are those courses that are not designated as Priority Access in Chapter XII.

Two-Semester Courses

When adding a two-semester course, students must complete the course selection process for each part of the course during the appropriate course selection period. (e.g. AGR*2351 in the Fall semester and AGR*2352 in the Winter semester). These courses must be taken in consecutive semesters as outlined in the course description.

Address for University Communication

Depending on the nature and timing of the communication, the University may use one of these addresses to communicate with students. Students are, therefore, responsible for checking all of the following on a regular basis:

Email Address

The University issued email address is considered an official address and will be used for correspondence from the University. Students are responsible for monitoring their University-issued email account regularly. See Section I--Statement of Students' Academic Responsibilities for more information.

Home Address

Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through Enrolment Services.

Admissions

University of Guelph students may, at some point, be required to complete and submit an application form to the Admission Services Office. The two most common reasons for submitting this internal application form are: to apply to transfer from one degree program to another or to apply for readmission to a program.

Application forms must be submitted to Admission Services by the deadline date established for each semester. An application fee is payable at the time the application is submitted (refer to Section III--Schedule of Dates.).

Application deadline dates are published in Section IV--Admission Information.

Associated Program Requirements

Program Committees have the option of identifying, as requirements for graduation, program components that are not academic courses and do not carry an academic credit weight. Associated Program Requirements allow programs to give formal recognition (but not academic credit) to the successful completion of program components that are primarily non-academic but are judged by the program committee as essential to fulfill the objectives of a degree or diploma program. Associated Program Requirements, when valid, are identified in Section X--Degree Programs in the schedule of studies for each appropriate area of study.

Attendance at Class

Instructors will inform students of the attendance requirements for individual courses in accordance with the policy of the department or school.

Caution: A student who for any reason does not attend classes regularly, runs the risk of being unable to complete the work of the semester and is advised to report to the program counsellor for academic counselling upon return to classes.

Audiencing Courses

A student may audit a course upon approval of the department offering the course and payment of a fee. The department shall provide to persons intending to audit a course a written statement prescribing the extent to which they may participate in the work of the course. No official transcript record of audited courses will be provided. The procedures for registration and course changes are the same as for regular course attempts, except that after the end of the add period, a student who is registered under audit status for a particular course is committed to that status and may not convert to credit status for the same course. A student may change from credit to audit status up to the drop deadline applicable to that course, with approval. A fee is assigned for each audit course (refer to Section VI--Schedule of Fees) except in the case of a student holding full-time classification. Full-time students who have received approval for audit courses are not assessed additional fees.

Permission to audit must be obtained from the instructor for the course, the chair of the department offering the course, and the student's program counsellor.

The student who receives approval to audit should discuss with the instructor the conditions under which that approval is given including, for example, attendance, submission of term work, taking of examinations.

An approved audit course does not constitute a course attempt. No official grade will be reported, and audit courses will not be used in the determination of the eligibility for continuation of study. Also, no official documentation will be provided to verify the auditing of a course.

Audit courses are not considered in calculating full-time or part-time status.

Class Level Calculation

All programs determine class level on the basis of successfully completed credits plus the number of credits in progress. As courses are dropped and added, or grades are received, the class level may be adjusted accordingly. Class Level is determined as follows:

<table>
<thead>
<tr>
<th>Successfully Completed Credits and Credits In-progress</th>
<th>Class Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 2.50</td>
<td>1</td>
</tr>
<tr>
<td>2.75 - 5.00</td>
<td>2</td>
</tr>
<tr>
<td>5.25 - 7.50</td>
<td>3</td>
</tr>
<tr>
<td>7.75 - 10.00</td>
<td>4</td>
</tr>
<tr>
<td>10.25 - 12.50</td>
<td>5</td>
</tr>
</tbody>
</table>

2012-2013 Undergraduate Calendar Last Revision: Oct. 19, 2012
## Continuation of Study

For continuation of study within a degree program, Open Learning or General Studies, a student must satisfy the conditions as set down under Schedule 1 or Schedule 2. The appropriate schedule will be determined by the criteria outlined below.

### Schedule 1

Students will follow Schedule 1 if:
1. they have registered for the first time at the University of Guelph with no previous registration in another college or university; or
2. they are registered at Guelph in the Open Learning Program and taking credit courses; or
3. they have been registered in a program at this University, are eligible to continue study in that program and subsequently transfer to another degree program (including students transferring from Open Learning to a degree program); or
4. they have transferred from another university or college and have been admitted to semester 1 at this University; or
5. they have been required for any reason other than academic performance to withdraw from the program, and subsequently are accepted for readmission to that program; or
6. they have registered at the University of Guelph as an exchange student.

### Schedule 1 Regulations

All degree programs, Open Learning and General Studies have established conditions which must be met for continuation of study. Continuation of study within a program is permitted provided the standards of academic performance listed below are met. In some instances, students not meeting the requirements may be allowed to proceed on probation (see Academic Standing—Probationary). If these conditions are not met, the student will be required to withdraw from the program for a minimum of two semesters and may apply for readmission after that period of time.

The continuation of study regulations at the University of Guelph are based on the principle that students must maintain a minimum average of 60%. To allow for transition issues, some leniency has been built into the minimum average requirement during the first 5.00 credit attempts. The student's cumulative average will be reviewed first. If the student's cumulative average does not meet the minimum required, the student will either be required to withdraw or placed on probation. When a student is placed on probation, he/she will be required to obtain a minimum semester average. In subsequent semesters the student will either be required to withdraw, allowed to continue on probation, or placed back on regular status. Students will be taken off probation once their cumulative average is greater than, or equal to 60%.

**Conditions for continuation of study are applied using the following tables:**

### Number of Credit Attempts: more than 5.00

#### If on Probation

**Continuation of Study Assessment for Students in Semester 2 on Probation following Schedule 1**

<table>
<thead>
<tr>
<th>Cumulative Average (C)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>S &lt; 50% or C &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>S ≥ 50% but C &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>S ≥ 50% but C &lt; 60%</td>
<td>Probationary Status</td>
</tr>
<tr>
<td>C ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>

**Number of Credit Attempts: more than 5.00**

#### If Eligible to Continue

Continuation of Study Assessment for Students following Schedule 2

<table>
<thead>
<tr>
<th>Cumulative Average (C)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>C &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>C ≥ 50% and C &lt; 60%</td>
<td>Probationary Status</td>
</tr>
<tr>
<td>C ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>

### Number of Credit Attempts: between 2.75 and 5.00

#### If on Probation

**Continuation of Study Assessment for Students in Semester 3 and Higher following Schedule 1**

<table>
<thead>
<tr>
<th>Cumulative Average (C)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>C &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>C ≥ 50% and C &lt; 60%</td>
<td>Probationary Status</td>
</tr>
<tr>
<td>C ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>

**Number of Credit Attempts: between 2.75 and 5.00**

#### If Eligible to Continue

Continuation of Study Assessment for Students following Schedule 2

<table>
<thead>
<tr>
<th>Cumulative Average (C)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>C &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>C ≥ 50% and C &lt; 60%</td>
<td>Probationary Status</td>
</tr>
<tr>
<td>C ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>

### Number of Credit Attempts: between 0.25 and 2.50

#### If on Probation

**Continuation of Study Assessment for Students in Semester 2 following Schedule 1**

<table>
<thead>
<tr>
<th>Cumulative Average (C)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>C &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>C ≥ 50% and C &lt; 60%</td>
<td>Probationary Status</td>
</tr>
<tr>
<td>C ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>

**Number of Credit Attempts: between 0.25 and 2.50**

#### If Eligible to Continue

Continuation of Study Assessment for Students in Semester 2 following Schedule 2

<table>
<thead>
<tr>
<th>Cumulative Average (C)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>C &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>C ≥ 50% and C &lt; 60%</td>
<td>Probationary Status</td>
</tr>
<tr>
<td>C ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>
Note: Alternative course evaluations will not be included in the Continuation of Study calculations [Pass (P), Outstanding Pass (OP), Fail (F), Credit Standing (CRD) or Withdrawal with Failure (WF)]. Courses taken on a letter of permission will also not be included in the calculations. Students negatively affected by the omission of these courses in the Continuation of Study calculations may appeal a continuation decision to the Academic Review Committee.

Course Sections

Student are advised of their course section when they receive their individual course schedule (WebAdvisor) at the beginning of the semester. Course section information indicates the meeting times and room for each course.

Students must attend the course section on their course schedule. In the event that a section change is necessary for the course, the student must drop the old section and add the new one following the add/drop process.

Department Chair's Responsibilities

The department chair will designate the responsibility for the approving of section changes during the add period. The approval of section changes may be done by the department or the responsibility may be assigned to individual instructors.

Registrar's Responsibilities

Enrolment Services confirms with the students on their individual course schedules (WebAdvisor) the course section in which they are enrolled.

Student's Responsibilities

Students must stay in assigned course sections. In the event that a section change is desired the department and/or instructor offering the course must be consulted.

Course Selection

This is the procedure by which students indicate their course requests, including the appropriate course section for upcoming semesters. Program approval may be required as outlined in Section VII - Academic Advising. Subject to the availability of a published timetable, students may select courses for more than one semester. Students are cautioned that courses may be subject to listed enrolment restrictions. In such cases, priority in the selection of students to receive the course will be given to those who have selected courses prior to the start of the semester. For further information, refer to Priority Access Courses in this section of the calendar.

Students are normally restricted to selecting 2.75 credits during course selection and up to the last day of the add period. A number of programs have Senate-approved schedules of study that require students to register in more than 2.75 credits for particular semesters. As a result, these programs are exempted from the 2.75 restriction as required.

On the last day of the add period, students are allowed to add courses up to a maximum of 3.25 credits on a first-come, first-served basis. Additionally, with approval from the program counsellor, under exceptional circumstances, a student can enrol in more than 2.75 credits earlier in the process.

New Students

A booklet including course selection material will be forwarded to new students by the Office of Registrarial Services. Consult this booklet to determine the procedures for course selection that pertain to the program to which you have applied. Students who are unable to return their course selection prior to the published deadline date have an opportunity to make their selection during the extended add period.

In-Course Students

Course selection material for upcoming semesters will be available during the semester to all registered students. Students who are not currently registered may receive the course selection material by contacting Enrolment Services, Office of Registrarial Services, prior to the deadline date for submission of course selection requests (refer to Section III--Schedule of Dates). Course selection requests received after the deadline date will not be processed.

There is a scheduled course selection period each semester where students can select courses for upcoming semesters (refer to Section III--Schedule of Dates for the exact dates).

Course selection is important for a number of reasons:

• a billing is generated via WebAdvisor by Student Financial Services on the basis of the course selection.

• course sections may be full after the course selection period and those who have not selected courses may not be able to enrol in them.

Students are encouraged to select courses for more than one semester at a time, subject to the availability of an Undergraduate Course Timetable.

Students are encouraged to select their courses using WebAdvisor, however, they may choose to complete an "Undergraduate Course Request" form. A separate "Undergraduate Course Request" form must be completed for each semester. "Undergraduate Course Request" forms must be submitted by the course selection deadline date for the applicable semester. Students who miss the course selection deadline must add their courses at the start of the semester (see Adding Courses and Dropping Courses in this section of the Undergraduate Calendar).

Detailed Instructions

Normally, course selection on WebAdvisor results in a class schedule indicating lecture and laboratory sections, room locations and examination schedules, as applicable.

A copy of a student's Academic Evaluation will be available after the second week of classes in a semester to each registered student. Students are encouraged to select their courses early and for more than one semester at a time.

Student's Responsibilities

1. Complete the Course Selection process.

2. Obtain program approvals if necessary (refer Section VII - Academic Advising).

3. Submit the request using WebAdvisor. If a student is required to submit a form to Enrolment Services he/she should complete the General section (Section A) of the Undergraduate Course Request form.

When a two-semester course is selected, students must complete the course selection process for each term during the appropriate course selection period. These courses must be taken in consecutive semesters as outlined in the course description.

All inquiries regarding distance education courses should be directed to the Centre for Open Learning and Educational Support, http://www.open.ucalgary.ca/

To change your specialization, please use the "Undergraduate Schedule of Studies Change Request" form and submit it to Enrolment Services.

It is the student's responsibility to ensure that the prerequisites have been satisfied for any course selected. Failure to do so will result in registration in the course being denied unless a "Course Requisite/Restriction Waiver" form, showing instructor approval, is presented to Enrolment Services along with the "Undergraduate Course Request" form. NOTE: Students who select a course for a future semester and who fail or drop the prerequisite(s) for the course in the current semester must drop the course. A replacement may be added during the add period.

A student may not register for a course in which pass standing (or higher) has been achieved on a previous course attempt unless so directed by the appropriate Academic Review Sub-Committee.

Diploma courses are available only to students registered in one of the Associate Diploma programs. Degree students who register in Associate Diploma courses will have the courses dropped from their record.

Students enrolled in the D.V.M. program are not normally sent an "Undergraduate Course Request" form. However, where changes to the required schedule of studies are necessary, students must indicate the course changes on an individual basis with their program counsellor and submit the change to Enrolment Services, Office of Registrarial Services.

Students not currently registered must contact Enrolment Services prior to the deadline dates if course selection is to be possible. Students missing the deadline dates will have to add their courses during the add period.

Departmental Advisor's Responsibilities

All advisors should be familiar with any course restrictions that apply to courses in their department.

Advisors should be prepared to help students plan a course program with emphasis on meeting specialization and program requirements for graduation.

Advisors should approve the overall course program where appropriate. Refer to Section VII - Academic Advising.

Program Counsellor's Responsibilities

A counsellor may withhold program approval if any of the following applies:

1. the student has not taken the necessary prerequisites or has not selected the necessary corequisites;

2. the program requirements stated as such in the Undergraduate Calendar are not observed;

3. the selection does not conform with decisions concerning the student that have been reached by the Admissions and Academic Review Sub-Committees.

A student wishing to take more than the normal number of credits must have the approval of the appropriate dean or designate. Refer to Section VII - Academic Advising

Registrar's Responsibilities

To coordinate and prepare all course selection information for distribution to all in-course students and to receive all completed "Undergraduate Course Request" forms.

To produce course counts based on the course selection material received and distribute the information to the appropriate department chair for his/her recommendations, regarding enrolment management.
Dean's Honours List

Effective Spring 1986, the University established a Dean's Honours List for full-time students which is recognized on students' transcripts. (Prior to Spring 1986 colleges used different criteria and the designation was not recognized on transcripts.) In Fall 1996 the Dean's Honours List procedures were revised to include all undergraduate programs. Effective Spring 1991 the Dean's Honours List procedures were extended to accommodate part-time study (see 2. below). Part-time students must contact their College/Dean's Office to formally request that the Dean's Honours List designation be applied to their official transcript. As part of the request, the student must identify the semester to be considered for the listing (e.g. Fall 2000). Approved requests will be forwarded by the Dean's Office to the Associate Registrar, Enrolment Services. The Dean's Honours List will include:

1. students taking full-time studies who have obtained a minimum semester average of 80.0%.
2. students who in part-time semesters (which do not need to be consecutive) attain a minimum cumulative average of 80.0% in a sequence of at least 2.00 credits. All credits will be counted and the designation will appear under the last of the semesters making up the average, and in the graduating semester of students who have maintained a cumulative average of 80.0% since their last Dean's Honours List Designation.
3. a student with a deferred condition, or a mark not received, or the first part of a two semester course in progress, will not be evaluated for placement on the Dean's Honours List until the academic record for that semester has been completed.
4. a part-time student who transfers from program to program within the University should consult the appropriate dean's office about the eligibility for the Dean's Honours List.

Students who have consistently maintained a high average, but for whom a change in program, in part-time status in the graduating semester, or other anomalies have prevented placement on the Dean's Honours List, should consult the appropriate dean's office about eligibility for the Dean's Honours List.

Students with a high level of academic achievement on exchange programs will be considered for the Dean's Honours List based on a recommendation to the appropriate Dean from the exchange co-ordinator.

Note: The calculation of full-time and part-time status for students includes courses with credit (CRD) standing or pass (P) standing. These courses do not affect the calculation of the averages used to determine Dean's Honours. Within each period of consideration there must be at least one course with a numeric grade for a student to qualify for Dean's Honours List unless the student has been on exchange for that period.

Deferred Privileges

When students do not write a required final examination, complete a final assignment, or complete a work term report by the deadline, they may be eligible for a deferred privilege. A deferred privilege is the opportunity to complete the final course requirements after the end of the semester. The nature of the deferred privilege may take the form of either a Deferred Condition or a Deferred Examination. The Academic Review Sub-Committee grants deferred privileges on the basis of medical, psychological, or compassionate consideration (see Academic Consideration and Appeals).

Deferred privileges are normally completed in the semester immediately following the semester in which the course was taken (refer to Section III--Schedule of Dates). If the Academic Review Sub-Committee assigns a passing grade or credit standing (CRD) on the basis of medical, psychological, or compassionate consideration, a student may request a deferred privilege instead. The student must make the request in writing to their Program Counsellor. The grade resulting from the deferred privilege will become part of the student's official academic record.

Instructors do not grant deferred privileges. They can only grant academic consideration for work that is due during the semester and cannot grant extensions beyond their deadlines for submission of final grades. The instructor should note on the "Instructor's Recommendation" form any special circumstances relating either to the student or to the way the course was conducted (see Final Grades).

Enrolment Services records the results of deferred privileges, and re-evaluates the student's academic record for continuation of study.

Deferred Condition

The instructor and/or Chair/Director determine the requirements and conduct of the deferred condition. The deferred condition may be a written test, an oral test, an assignment, a laboratory practical, or any other method of evaluation. The requirements for completion of the deferred condition are documented on the "Terms of Supplemental/Deferred Condition" form [https://webadvisor.uoguelph.ca/ unst/ index.shtml] and a copy of the form is retained by the instructor and the student. The department notifies Enrolment Services of the results of a deferred condition, normally within 7 days of its completion.

Students must normally complete a deferred condition by the end of the deferred examination schedule in the semester immediately following the completion of the course (refer to Section III--Schedule of Dates). Scheduling, Office of Registrarial Services advises students in writing of the deadline for the completion of a condition.

In addition, Scheduling directs the student to the "Terms of Supplemental/Deferred Condition" form [https://webadvisor.uoguelph.ca/ unst/ index.shtml]. It is the student's responsibility to contact the instructor and make arrangements for the details of the condition.

Scheduling advises departments in writing of the students who have been granted deferred conditions. The memorandum specifies the date for completion of the deferred condition, and the deadline for the submission of final grades to Enrolment Services. It is the responsibility of the Chair/Director or designate to advise the appropriate instructors of the deferred conditions that have been granted.

If the condition is not completed by the required date, a grade is assigned based on the term work completed as indicated on the original "Instructor's Recommendation" form. Students may be considered for an extension, or the assignment of a grade based on incomplete work, if medical or compassionate reasons prevail at the time of the scheduled condition. In this case, the student should consult with their program counsellor and may submit a "Request for Academic Consideration" form with documentation to Enrolment Services, Office of Registrarial Services.

Deferred Examination

Scheduling, Office of Registrarial Services schedules and supervises deferred examinations that are two hours in length. Scheduling notifies departments of the deferred examination schedule and advises the students of the date, time and location of their deferred examinations. The Academic Review Sub-Committees expect students to write deferred examinations during the deferred examination period that follows the end of the semester in which the course was taken (refer to Section III--Schedule of Dates).

When conflicts arise between a student’s deferred final examination and a midterm examination, the deferred examination takes precedence. The instructor for the class in which the midterm is being written shall make appropriate accommodation, mutually agreeable the student and instructor, for the student to make up the missed midterm examination. If the student and instructor are not able to come to an agreement, they will refer the matter to the Chair/Director responsible for the course. Students may request an extension, or the assignment of a grade based on incomplete work, if medical or compassionate reasons prevail at the time of the scheduled deferred examination. In this case, the student should consult with their program counsellor and may submit a "Request for Academic Consideration" form with documentation to Enrolment Services, Office of Registrarial Services.

Procedures for Deferred Privileges

Chair/Director's Responsibilities

The Chair/Director or designated department/school examination coordinator is responsible for the following:

1. Requesting a deferred examination from the appropriate instructor upon request from Scheduling, Office of Registrarial Services and informing the instructors of students who have been granted deferred privileges.
2. When a deferred examination is scheduled, forwarding one examination paper from the instructor for each student granted a deferred examination in the course, plus one extra paper per course to Scheduling, Office of Registrarial Services.
3. Where the instructor is unavailable, providing the required examination papers to Scheduling, Office of Registrarial Services.
4. At the end of the Deferred Examination period, collecting completed examination papers from Scheduling.
5. Immediately distributing the completed examination papers to the appropriate instructor for marking.
6. In the case where a student is unable to make contact with the instructor to determine the nature of a deferred condition, taking necessary steps to assist the student in determining the requirements for the condition.
7. (Chair/Director only) initializing all grades submitted by instructors and forwarding them to the Enrolment Services, Office of Registrarial Services, by the date indicated in the request letter.

Instructor's Responsibilities

The course instructor is responsible for the following:

1. In the case of a deferred condition, completing the "Terms of Supplemental/Deferred Condition" form, providing student with a copy of the form, and keeping a copy. The instructor must adhere to the deadlines for the completion of the condition and the submission of the final grades to Enrolment Services, Office of Registrarial Services.
2. In the case of a deferred examination, providing examination papers to the Chair/Director and indicating what exam aids the student in writing the examination may use.
3. Prompt marking of deferred course materials and submission of grades to the Chair/Director or designate.
Student’s Responsibilities

1. When the Academic Review Sub-Committee grants a deferred condition, contacting the instructor of the course and presenting the "Terms of Supplemental/Deferred Condition" form upon notification. Students must contact the instructor of the course immediately, in order to complete the condition prior to the deadline specified by Scheduling. The deadline is normally the last day of the deferred examination period for the semester in which the course was taken (which falls in the semester immediately following the semester in which the course was taken, refer to Section III--Schedule of Dates). The student and instructor must complete the form, indicating the exact nature of the deferred condition. If the student cannot contact the instructor, he/she must contact the Chair/Director of the offering department/school. If the student does not make the required contact within the deadline specified by Scheduling, the University will assume that the student does not intend to complete the condition, and a grade will be assigned based on term work completed, as indicated on the original Instructor’s Recommendation form.

2. When a deferred examination is granted, appearing for the deferred examination according to the date, time and location designated on the deferred examination timetable.

3. Students identified by Scheduling as residing outside a 150 km (approx) radius of Guelph are permitted to write deferred examinations at an academic institution (high school, college or university) within their own vicinity. Students choosing this option must have the Off-Site Invigilator Form completed by an employee at one of the above type of institutions and forward it by fax to Scheduling. For more information, form and deadline see: http://www.uoguelph.ca/registrar/undergraduate/files/invigilator_form.pdf.

Registrar’s Responsibilities

1. Enrolment Services informs the student and Scheduling of academic review decisions, collects grades, and evaluates the continuation of study status when deferred grades have been recorded.

2. The Examination Coordinator, Scheduling, informs the Chair/Director/designate that the Academic Review Sub-Committee has granted a deferred condition or examination; informs students who have been granted a deferred condition that it is their responsibility to contact the instructor to arrange the condition; specifies a deadline for completion of deferred conditions; prepares a deferred examination timetable and notifies all students who have been granted a deferred examination; identifies students residing 150 km (approx) from Guelph, and coordinates examinations with approved off-site invigilators (see Student’s Responsibilities above); requests the deferred examination papers from the Chair/Director/designate; invigilates the deferred examinations; at completion of the deferred examination period, prepares completed examination packages for each department/school, attaching a grade reporting sheet for each examination and noting which students did not write and which have been granted extensions by Program Counsellors; notifies department Chair/Director/designate that examination packages are ready for pickup in Scheduling.

Dropping Courses

All course drops from a student’s program for a particular semester are to be completed by the dates specified in the Section III--Schedule of Dates. Courses that are one semester long must be dropped by the end of the fourtieth class day; two-semester courses must be dropped by the last day of the add period in the second semester. The dropping of a course after the deadline is allowed only in exceptional circumstances and requires the approval of the program counsellor or Academic Review Sub-Committee of the program in which the student is registered.

Deadline Dates

In all cases, if course changes are made, using WebAdvisor or the "Undergraduate Course Request" form, the changes must be made by the drop deadline (refer to Section VI--Schedule of Fees for the refund schedule). The deadline dates for dropping courses (i.e. the fourtieth class day) are noted in Section III--Schedule of Dates.

Instructor Notification

In some cases the instructor must be notified when a student is dropping a courses, for example, where students care for laboratory animals, or where supplies or books on loan must be returned. If instructor notification is required to drop the course, this will be specified on the course outline and announced in the first class meeting.

Refunds

Refer to Section VI--Schedule of Fees for refund schedule. Normally, changes to the effective date of dropped courses are only allowed for documented medical or compassionate reasons and require the approval of the program counsellor.

Regular Courses

Regular courses may be dropped from the start of the add period to the fourtieth class day without approval except where instructor notification is required (see Instructor Notification above).

Two-Semester Courses

When dropping two-semester courses, both semesters of the course must be dropped. Students who wish to re-take a two-semester course must re-take both parts of the course. The drop deadline for a two-semester course is the last day of the add period in the second semester.

Examinations

During the examination period, Saturday is considered a regular day. Examinations may be scheduled on public holidays. Students are advised to note Section III--Schedule of Dates. Students who encounter a conflict between a scheduled mid-term or final examination and a religious obligation (see Academic Accommodation of Religious Obligations) must contact the instructor-in-charge or their program counsellor to request that alternate arrangements be made. A listing of major religious holidays is available from the Office of Student Affairs.

Mid-Term Examinations

Term tests must not be scheduled during the last five class days prior to the final examination period. Exceptions may be granted by the Dean (or designates) for practical evaluations such a Laboratory or Studio tests, with the scheduling of such tests indicated in the course outline. Short quizzes which have been a regularly scheduled part of the course and which are intended to review small amounts of material are not considered term tests and may be held during the last five class days.

Departments are urged by the Board of Undergraduate Studies to make every effort to schedule term tests and examinations in regularly scheduled class time. The Board recommends that faculty make every effort to accommodate students representing the University in extra-curricular activities when there is a conflict between those activities and scheduled tests or examinations held outside regularly scheduled classes.

The directors of schools and department chairs must apply the policy having due regard to the special needs of courses over which they have jurisdiction.

The Board of Undergraduate Studies has reaffirmed the commitment to maintain the 17:20 to 19:00 time slot free of academic activities as much as possible. However, from time to time approval may be given to scheduling classes or labs in that time slot. Requests for scheduling out-of-class mid-term examinations should also be restricted as much as possible to regular academic hours (8:30-17:20 and 19:00-22:00). In the event that appropriate space is not available during regular hours, the use of the 17:20-19:00 time slot may be approved.

Instructors are cautioned that if there is a scheduling conflict between a scheduled class for another course and the proposed time for the mid-term examination, the scheduled class takes priority and students with such a conflict must be accommodated.

When conflicts arise between deferred final examinations and midterm examinations, the deferred final examination must take precedence. The instructor for the class in which the midterm is being written shall make appropriate accommodation, mutually agreeable to the student and instructor, for the student to make up for the missed mid-term exam.

If the student and the instructor are not able to come to a mutual agreement, the matter will be referred to the appropriate department chair.

All additional rooms for mid-term examinations are to be booked through the Reservations Clerk, Scheduling, Office of Registrarial Services.

Chair/Director's Responsibilities

1. The conduct of all term examinations.

2. Appointing an adequate number of invigilators to assist the instructor-in-charge.

Instructor’s Responsibilities

1. Taking attendance record at each term examination. The attendance record is for the department's use and is not submitted to Registrarial Services.

2. Exercising discretion when requiring certification of illness. In particular, instructors are encouraged not to require certification of illness affecting semester work when the assessment in question constitutes a small proportion of the course grade, or when alternative means for carrying out the assessment are available.

Final Examinations/Assignments and Final Week of Classes

Final Week of Classes

Final term assignments or papers may be due in the last five class days prior to the final examination period. Due dates for these evaluations should be stated in the course outline. Final assignments along with all necessary resource material should be available to students no later than the end of the 9th week of classes. Take-home examinations may not be due in the last week of classes.

Term tests must not be scheduled during the last five class days prior to the final examination period. Exceptions may be granted by the Dean (or designates) for practical evaluations such as Laboratory or Studio tests, with the scheduling of such tests indicated in the course outline. Short quizzes which have been a regularly scheduled part of the course and which are intended to review small amounts of material are not considered term tests and may be held during the last five class days.
Final Examinations (Regular, Take-Home and Other Format) and Final Assignments

Where regular final examinations are to be given they must be given during the examination period. All regular final examinations shall be two hours in duration. The following guidelines for conducting final examinations have been approved by Senate.

1. Departments should indicate to ORS whether a final examination time slot is required for a course. Departments will indicate whether:
   - the examination will be a regular, sit-down examination for which a room is required;
   - the examination will be a take-home examination;
   - the examination will be in some other format (orals; computer exams; juried performance exams, etc.).

2. Unless approved by the Department Chair, examinations for 1000 level courses will be in regular, sit-down format only.

3. The final examination period should be scheduled so as to provide a two day break between the last day of classes and the first day of examinations.

4. The final examination period consists of eleven days, except in the Summer semester, where it is eight days.

5. The periods scheduled for final examinations which are to be written in examination halls shall be all of two hours in duration. No regular examination held during the final dates scheduled for final examination periods shall be longer than two hours.

(Note: Some DVM courses are exempted from this rule and require three hour exams.)

6. Under normal circumstances, changes to the published examination timetable are not permitted.

7. Where final examinations in either regular, take-home or other format are to be given, they must be given during the examination period.

8. The Office of Registrarial Services has determined the 9th day (6th day in the 12-week format summer semester; 4th day in the 6-week format summer semester) of the examination period as the final due date that may be assigned for take home examinations or exams given in other than regular, sit-down format. When using a take-home or other format final examination, departments will inform the Office of Registrarial Services whether they are using the 9th day (6th day in the 12-week format summer semester; 4th day in the 6-week format summer semester) of the examination period as the due date, or whether they are using an earlier date.

9. Faculty using take-home examinations will determine when the examination paper will be made available to students, but must allow students at least 72 hours between the date of issue of the exam and the due date. The date of issue of the examination and the due date must be included in the course outline distributed at the first class meeting. If a student's time to complete a take-home examination is significantly lessened because of the number and timing of regularly scheduled sit-down examinations, the instructor may grant an extension, provided the new due date is not beyond the grade submission deadline for the course. The student must initiate such a request no later than the end of the second week of classes. The length of the extension will be at the instructor's discretion and instructors are advised to give the student the new due date in writing. The date of issue of the examination and its due date must be included in the course outline distributed at the first class meeting.

10. If the examination is to be handed out after the end of classes, the instructor will be responsible for arranging distribution and for ensuring that students have the appropriate opportunity to ask questions for clarification.

11. Final assignments or papers may be due either during the final examination period or in the last week of classes. In either case, the assignments along with all necessary resource material should be available to students no later than the end of the 9th week of classes and the due date and date of issue of the assignment must be included in the course outline distributed at the first class meeting. The Office of Registrarial Services has determined the 9th day (6th day in the 12-week format summer semester; 4th day in the 6-week format summer semester) of the examination period as the final due date that may be assigned for final assignments due in the examination period. When a final assignment used in lieu of a final examination is to be due in the examination period, the department will inform the Office of Registrarial Services whether they are using the 9th day (6th day in the 12-week format summer semester; 4th day in the 6-week format summer semester) of the examination period, or whether they are using an earlier date. This information must be provided to ORS before the beginning of the semester and must be included on the course outline distributed at the first class meeting. Instructors who opt for an assignment to be due during the examination period may not also include a final examination in their courses.

The Office of Registrarial Services of the University is the final arbiter of the manner of conducting examinations and receives general directives on policy from the Provost and Vice President (Academic), and the Board of Undergraduate Studies.

The Office of Registrarial Services will, in cooperation with the appropriate examiners, establish special examination procedures as and when needed, for students who have temporary or permanent physical disabilities. Medical opinion shall be sought whenever there is doubt about the extent of the disability.

Chair/ Director’s Responsibilities

1. Completing the “Final Exam Request Form” by the deadline date set by Scheduling

2. Completing the “Final Exam Location Request” by the deadline date by Scheduling

3. Printing the required number of examination papers for each examination

4. Providing for the security of examination papers printed in the department for the instructor

5. Providing examination location information to instructors when the information is received from Scheduling, one week prior to the commencement of the final examination period.

6. Distributing the copies of the examination to the instructor on the date set for the examination

7. The conduct of all final examinations for courses taught by the faculty of their department/school. The Chair/ Director must identify an alternate instructor-in-charge for final examinations where the course instructor is not available

8. Providing examination attendance records to the instructor-in-charge for examinations not under the direction of the Office of Registrarial Services

9. Appointing invigilators for examinations under the direction of the Office of Registrarial Services (2 invigilators for a class of 20-25 students and 1 additional invigilator for each additional 50 students in a class, thus a class of 125 students should have 4 invigilators)

Instructor’s Responsibilities

Instructors who wish to hold examinations in other than sit-down, regular formats should discuss procedures with their Chair/ Director.

The faculty member(s) responsible for the course and the setting of the examination, or a designate, shall be the instructor(s)-in-charge for final examinations in that course. They are responsible for the following.

1. Including the time of the final examination on the course outline distributed to students at the commencement of the semester. Note that under normal circumstances, once established, the date, time and location of final examinations may not be changed (see Grading, Resolution 5), and that where a course is taught in multiple sections the final examination date and time will be the same for all sections regardless of location (see Grading, Resolution 7)

2. If it becomes necessary to change an examination time or to add a final examination, contacting Scheduling, Office of Registrarial Services, and once a time is set, obtaining the written approval of all students.

3. Advising Scheduling, Office of Registrarial Services, prior to the examination if an “open book” examination is to be written; otherwise, it will be considered “closed book”.

4. Arriving at the examination room thirty minutes prior to the commencement of the examination and distributing examination papers, attendance cards, if used, and other authorized materials.

5. Taking attendance during the first hour of the examination period. (Attendance cards are used in the Athletic Centre and class lists in other locations.)

6. Arranging the collection of completed examination papers and comparing the number of examinations collected to the number of attendance cards or student signatures collected. These records should be retained by the department for a period of one semester.

7. With his/her invigilators, ensuring that students do not enter the examination room after the first 60 minutes or leave during the first 60 or last 15 minutes of the examination period.

8. Including all instructions regarding the examination on the examination paper, i.e., writing on every other line, writing on the right hand pages of the book. No verbal instructions can be made at the examination hall with the exception of corrections to printed instructions and material.

9. Where a student does not write the final examination, following the procedures outlined under Academic Consideration in this section of the calendar.

Student’s Responsibilities

1. Students are advised that the Final Examination schedules are available for Fall Semester by mid-August, for Winter Semester by mid-December, and for Summer Semester by mid-April. Students are required to consult the final examination timetable in order to avoid conflicts in examination times when adding courses in subsequent Add periods. Students may not remain registered in courses with conflicting final examinations unless written approval is obtained from the dean or director and the instructors-in-charge of the courses. (Note that three examinations in 24 hours does not constitute an examination conflict. A conflict exists only when two examinations are scheduled into the same timeslot.)

2. ACADEMIC considERENCE IS NOT GIVEN TO STUDENTS WHO MISREAD PUBLISHED TIMETABLES.
One week prior to the commencement of Final Examinations, the Final Examination location information will be posted in the Library, Athletic Centre, Office of Registrarial Services and on WebAdvisor. Students may also check their personal examination schedule on WebAdvisor by selecting “Class Schedule”, the current Term, and then “Exam Schedule Grid”.

Students in Distance Education courses who live more than 170 km from campus will write their final examinations at a selected off-campus examination site close to where they live. For further information, please contact Centre for Open Learning and Educational Support, 519-767-5000.

Students must be seated on entering the examination hall. Until at least 1 hour after commencement of the examination, no candidates shall be permitted to leave except under supervision. If a candidate is not present within the first hour of the commencement of the examination, the candidate shall not be permitted to write the examination.

No person shall be allowed in the examination hall during the course of examination except the candidates concerned and those supervising the examination.

No book, paper, or other aids shall be used during the examination except by Students in Distance Education courses who live more than 170 km from campus. Cell phones and pagers must be switched off and stored out of sight.

Approximately 6 weeks prior to the start of final examinations, distributing to providing each instructor-in-charge with attendance cards.

When more than one book is handed in, students shall number each book and indicate on the cover of the first book the total number of books used. Students shall dispose of their bags and knapsacks by placing them on the floor beneath their chairs, and any books not classified as permissible aids shall be placed along the sides of the room.

Cell phones and pagers must be switched off and stored out of sight.

If provided, students must complete the examination attendance card at the beginning of the examination and place it beside their University of Guelph identification card at the front of the table. The attendance card will be signed at the time of collection.

Candidates shall not communicate with one another by writing, by signs, by words, or in any manner whatsoever while examinations are proceeding.

Students who have completed the examination will be allowed to leave their seats after the first hour has elapsed and after their examination books have been collected. To minimize the disturbance to students who have not yet completed their examinations, no student shall leave the examination hall during the last 15 minutes of the examination. At the conclusion of the examination period, students must remain seated until all papers have been collected and they are dismissed by the instructor-in-charge or, in the Athletic Centre, the Chief Invigilator.

When more than one book is handed in, students shall number each book and indicate on the cover of the first book the total number of books used.

No writing within the answer book or completion of computer answer sheets is permitted after the instruction to stop writing has been given. The instructor-in-charge may refuse to accept the paper of any candidate who fails to observe this time limit.

Registrar’s Responsibilities

The Final Examination Timetable, prepared by the Examination Coordinator, Scheduling, Office of Registrarial Services is based on student course selections on file at the end of October (for Winter), March (for Summer), and July (for Fall). Approximately 75,000 registration records per semester (Fall and Winter), one record for each student in each course (“Student #1 in Course A”; “Student #1 in Course B”; etc.) are downloaded into a computer program designed to schedule the approx. 700 final examinations held each semester into 44 timeslots, across 11 days. This process ensures that in most semesters no conflicts are created for students. (Please note that for courses in which no students have registered by the time the data is downloaded, examinations cannot be centrally scheduled.) In the unusual circumstance that scheduling of final examinations by the Office of Registrarial Services results in an examination conflict for a student, the Examinations Coordinator in Scheduling, ORS, will contact the student, the course instructors on record, the relevant departmental examination coordinators and Program Counselor by electronic mail. Instructors will be asked to schedule an alternate examination time within the examination period for the student. Program Counselors and Scheduling will provide support to the instructors in determining an appropriate time for the re-scheduled examination. Resolution of the conflict will take place before the end of the Add period for the semester.

Final Examination Timetables are made available for Fall Semester by mid-August, for Winter Semester by mid-December, and for Summer Semester by mid-April. Once Examination Timetables are published, students must ensure that they do not create examination conflicts for themselves when adding courses in subsequent Add periods.

For further information, see Student’s Responsibilities above. Other responsibilities of the Examinations Coordinator include:

Policy on Student Access to Final Examination Materials

Final examination papers and final assignments are to be retained by faculty members for a period of one semester.

Printed or written materials directly related to examinations conducted in the final examination time period published in the Undergraduate Calendar, or related to final assignments shall be made available to a student, upon submission of a written request to the department chair. The request shall be submitted by the fifth class day of the next semester.

Printed or written materials to be made available include the examination question paper, the marking scheme keyed to desired responses to questions, where appropriate; the student’s response to the examination questions; and records taken by examiners during oral or any other examination. Faculty members are encouraged to discuss openly with the student any questions raised. The department chair will make the necessary arrangements for student access to the material. When a large number of requests are received in connection with a specific course or when a faculty member is on leave it may be necessary for the department chair to delay access and make special arrangements, e.g., the posting of the marking scheme on a bulletin board, the scheduling of a special meeting at which the faculty member will review the examination, etc.

Exchange Programs

Exchange programs between the University of Guelph and other institutions are defined by the terms of formal exchange agreements. A copy of each agreement must be approved by the Associate Vice-President (Academic) and registered with the Associate Registrar, Enrolment Services.

Students participating in exchange programs pay full-time tuition fees at their home university, but select their courses at the university they will be visiting. The grades are recorded there and forwarded to the home institution at the end of the semester or academic year. Each institution participating in an exchange program designates a co-ordinator who will be responsible for arranging the details of the exchange. Students are advised not to leave on exchange without the written approval of the receiving university.

Students must pay their full-time fees and select their courses prior to leaving on exchange. "Exchange Program Course Selection Request" forms are available at the Centre for International Programs (C.I.P.) Office or from Enrolment Services, Office of Registrarial Services. Details on specific exchange programs can be found in Section V—International Study.

Courses taken on exchange will appear on the transcript as non-specific University of Guelph courses and will be graded using the Outstanding/Pass/Fail format. Grades will be determined by the Study Abroad Manager using an official transcript submitted by the host institution.

Informal exchange programs where a formal agreement does not exist must be conducted by means of a letter of permission and tuition fees will be paid to the receiving institution (refer to Section VI—Schedule of Fees).

Failed Courses

In general, a student who is eligible for continuation of study in the program but has failed to gain standing in one or more of the courses attempted will be required to repeat the course(s) or take an alternative credit. However, the University recognizes that there may be cases where it is unreasonable for the student to repeat the course to make up for the lost credit.

Therefore, the Academic Review Sub-Committee may, if appropriate and feasible, and only under special circumstances, allow a student the opportunity to gain credit for a failed course by granting a supplemental privilege. It is unlikely that any student with a final grade of less than 40% would meet the requirements of the granting of a supplemental privilege. The decision to grant the privilege will normally be made in consultation with the instructor and a review of the student's course performance during the semester. The student must submit a Request For Academic Consideration form to request a supplemental privilege.

The Academic Review Sub-Committees will consider granting a supplemental privilege in the following special circumstances:
1. the course is failed in the graduating semester (if a supplemental privilege is granted and successfully completed, convocation will most likely be deferred until the following semester);

2. the failed course is not available to the student within the following three semesters, or within a time period that includes the graduating semester;

3. the course is of such a nature that there is no permissible substitute or alternative available to the student within the following three semesters, or within a time period that includes the graduating semester; or

4. the course is a required two-semester course that cannot be taken and completed within the following three semesters, or within a time period that includes the graduating semester.

The original failing grade will remain on the student's academic record. A notation of "P" or "F" will be shown beside the original failing grade to show that a supplemental privilege was granted and whether the outcome resulted in credit (P) or not (F).

**Multiple Failure Limitations**

Students should note that some programs limit the number of times a student may repeat failed courses. A student may not be permitted to continue in his/her major and/or program should they fail the same course, or its equivalent, multiple times. Multiple failure limitations are noted in Program Requirements by Degree Program in Chapter X--Degree Programs.

**Grades**

**Grading System**

Two-semester courses constitute two course attempts and will appear as such on the student academic record. These courses are indivisible and the same grade will apply for each attempt. A refined grading system was approved by Senate on May 21, 1991 effective Spring 1992 as follows:

**Grading System**

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>90-100</td>
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<tr>
<td>A</td>
<td>85-89</td>
</tr>
<tr>
<td>A-</td>
<td>80-84</td>
</tr>
<tr>
<td>B+</td>
<td>77-79</td>
</tr>
<tr>
<td>B</td>
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<td>C+</td>
<td>67-69</td>
</tr>
<tr>
<td>C</td>
<td>64-66</td>
</tr>
<tr>
<td>C-</td>
<td>60-62</td>
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<tr>
<td>D+</td>
<td>57-59</td>
</tr>
<tr>
<td>D</td>
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<tr>
<td>D-</td>
<td>50-52</td>
</tr>
<tr>
<td>F</td>
<td>0-49</td>
</tr>
</tbody>
</table>

Courses taken on exchange are graded using the Outstanding /Pass /Fail alternate grading system (refer to Exchanges, Section V--Special Study Opportunities; Exchanges). In addition, selected University of Guelph courses, approved by the Board of Undergraduate Studies, will use this alternate grading system.

**Alternate Grading System**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP</td>
<td>Outstanding (Pass)</td>
</tr>
<tr>
<td>P</td>
<td>Pass</td>
</tr>
<tr>
<td>F</td>
<td>Fail</td>
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**Other Grade Notations**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Definition</th>
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</thead>
<tbody>
<tr>
<td>AUD</td>
<td>Audit</td>
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<tr>
<td>CRD</td>
<td>Credit</td>
</tr>
<tr>
<td>DEF</td>
<td>Deferred Privilege</td>
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<tr>
<td>INC</td>
<td>Incomplete</td>
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<td>INP</td>
<td>In Progress</td>
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<tr>
<td>MNR</td>
<td>Mark Not Received</td>
</tr>
<tr>
<td>WF</td>
<td>Withdrawn with Failure</td>
</tr>
</tbody>
</table>

**Grading Procedures**

Feedback to students on work completed or in progress is an integral part of teaching and learning in that it allows students to measure their understanding of material and their progress on learning objectives. Feedback often goes beyond grading—an indication of the standard achieved—to include comments on the particular strengths and weaknesses of a student's performance. While the nature and frequency of such feedback will vary with the course, the University of Guelph is committed to providing students with appropriate and timely feedback on their work. Instructors must provide meaningful and constructive feedback prior to the 40th class day. This may include but is not exclusive to returning papers, assignments, in-class or laboratory quizzes, laboratory reports, or midterm examinations prior to the 40th class day. In research and independent study courses, instructors must provide students with a realistic idea of their performance by discussing progress directly with the student and, if necessary, identify specific areas for improvement. This may include the assessment of a research plan, literature review, annotated bibliography, oral presentation or other assessment tools.

**Resolution 1**

That the assignment of grades at the University of Guelph be based on clearly defined standards, which are to be published in the Undergraduate Calendar for the benefit of faculty and students and that the definitions for each of the numerical grade range (letter grades) be as follows:

- **80 - 100 (A) Excellent.** An outstanding performance in which the student demonstrates a superior grasp of the subject matter, and an ability to go beyond the given material in a critical and constructive manner. The student demonstrates a high degree of creative and/or logical thinking, a superior ability to organize, to analyze, and to integrate ideas, and a thorough familiarity with the appropriate literature and techniques.

- **70 - 79 (B) Good.** A more than adequate performance in which the student demonstrates a thorough grasp of the subject matter, and an ability to organize and examine the material in a critical and constructive manner. The student demonstrates a good understanding of the relevant issues and a familiarity with the appropriate literature and techniques.

- **60 - 69 (C) Acceptable.** An adequate performance in which the student demonstrates a generally adequate grasp of the subject matter and a moderate ability to examine the material in a critical and constructive manner. The student displays an adequate understanding of the relevant issues, and a general familiarity with the appropriate literature and techniques.

- **50 - 59 (D) Minimally Acceptable.** A barely adequate performance in which the student demonstrates a familiarity with the subject matter, but whose attempts to examine the material in a critical and constructive manner are only partially successful. The student displays some understanding of the relevant issues, and some familiarity with the appropriate literature and techniques.

- **0 - 49 (F) Fail.** An inadequate performance.

**Resolution 2**

That instructors must use evaluation criteria which measure quality of performance and not merely activity. Unannounced evaluations or surprise assessments may not be used for course assessment purposes or to determine course grades.

**Resolution 3**

That instructors are not to use predetermined, arbitrary distributions in the assignment of grades in individual courses.

**Resolution 4**

**Part A**

That, by the start of the course selection period for the semester in which the course will be offered, instructors will provide a course description for posting to the department website. This course description shall include a brief summary of the course topics and requirements, the general format of the course, and the methods of evaluation.

**Part B**

That, by the first class meeting of the course (by the end of the first week of classes for distance education courses), the instructor must provide students with a written course outline. The course outline may be distributed either a) in class or b) electronically via the official course website on CourseLink and must include a detailed description of course requirements, the methods of evaluation, and the timing of the evaluations.
Resolution 5
That the methods and/or timing of evaluation as indicated on the course outline should not be changed after the first class meeting except under strictly adhered to conditions. Notice of proposed change and of the class at which consent is to be sought, must be given at a previously scheduled class. Where the change is supported by the instructor and is consistent with University policies and procedures, such change may be enacted with the unanimous consent of students. If unanimous consent of the students has not been obtained, the change may be enacted only with the approval of the chair of the department and only if alternative and equitable accommodation is available to students opposed to the change.

Resolution 6
That all term tests, assignments, laboratory reports, etc., should be returned to, or discussed with students, without undue delay and in any case before the last day of the examination period. If the material is necessary for the preparation of the final examination, it must be returned or discussed as soon as possible and in any case no later than three days before the examination.

Resolution 7
It is recognized that multiple sections of the same course may differ in terms of texts and other academic resource materials, teaching methods and formats, and evaluation procedures used. However, the department is responsible for ensuring that the different sections are achieving common learning objectives with a common set of academic standards and expectations. The department chair is responsible for ensuring the consistency of final grade distribution across sections over time. Where a course has more than one section writing a final examination, the examination date and time will be the same for all sections.

Resolution 8
That each department must keep under continual review its grading procedures and matters that relate to academic standards to make sure the University’s policies are being applied.

Resolution 9
That normally all courses at the 1000 and 2000 levels shall have final examinations and that exceptions require the approval of the Chair of the Department.

The Board of Undergraduate Studies has by formal resolution undertaken to do as follows:

• to specify clearly the administrative responsibility of chairs with respect to the methods of evaluation, the setting of examinations and the determining of grades in courses in their departments.

• to review the effects of the pass by course system on the academic standards of the University.

• to request each program to review its overall academic standards and, in particular, its requirements for graduation.

• to examine whether the prerequisites at the secondary school level required for admission to the University of Guelph are adequate.

• from time to time, to review and monitor the academic standards across the University to ensure that there is consistency and that the regulations of the University are being adhered to.

Resolution 10
Senate resolved on June 21, 1977 that in determining grades for written assignments the instructor should take into consideration the student's ability to use correctly and effectively the language appropriate to the assignment.

Resolution 11
Senate resolved on March 21, 1978 that the chair should review, prior to the commencement of classes, the manner in which a faculty member intends to conduct a course and to determine final grades. If the chair disagrees with the faculty member's intention or subsequently with the implementation of the stated intentions, the chair will discuss his/her concerns with the faculty member. If agreement cannot be reached, the matter will be referred to an appropriate department committee which will advise the chair in reaching his/her decision. The advice may include a recommendation on examination procedures.

Submission of Final Grades

General Information
Enrolment Services, Office of Registrarial Services, distributes the "Grades Due Report" forms to the departments one week prior to the examinations period for the semester. The "Grades Due Report" specifies the deadline date for submission of grades to Enrolment Services, Office of Registrarial Services.

Instructor's Responsibilities
The instructor (department) is to retain all final examination papers and term assessments not returned to students for a period of one semester. The "Grades Due Report" form distributed by Enrolment Services, Office of Registrarial Services, will carry the due date for grades for each course section. The due dates are established in accordance with the regulations of the Senate.

Grades must be submitted to Enrolment Services by the deadline stated on the "Grades Due Report". The early submission of grades will assist in their processing. Grades that are not received prior to the release of student grades are reported as "MNR" (mark not received).

Class lists are updated regularly on the Class List Web-site for departmental download. Lists downloaded from the Class List Web-site list all officially registered students in a class. The department must explain any changes to the list, e.g., in the case of:

1. A student whose name is not on the list, but who has been attending class.
2. A student whose name appears on the list, but for whom the instructor has no record.

Instructors must not grant an extension of time to any student beyond the final date for submission of grades for that course. Instructors must report students who do not satisfy course requirements by assigning a grade of "INC" and noting incomplete work on an "Instructor's Recommendation" form.

Instructor's Recommendation Form
Instructors should only submit grades for students who have completed their final work for a course. If a student does not complete a final examination or final assignment, the instructor must enter "INC" (incomplete) on the "Grade Report" form and complete an "Instructor's Recommendation" form for the student. The "Instructor's Recommendation" form is available from the chair of the department. Departments must submit the "Instructor's Recommendation" form(s) along with the "Grade Report" form to Enrolment Services, Office of Registrarial Services. The Academic Review Sub-Committee will contact the faculty and/or department chairs at the time of meetings if this procedure is not followed. The instructor's recommendations assist the members of the Academic Review Sub-Committee in making their decision. The instructor must complete all sections of the form for each student reported.

Student's Responsibilities
Students must have all final assignments completed and submitted to instructors by the deadline dates indicated in the course outline. Instructors cannot grant extensions beyond the deadline for submission of grades. Students who are unable to satisfy the submission deadlines established by the instructor and who wish special consideration for medical, psychological or compassionate reasons should request academic consideration (refer to Academic Consideration and Appeals).

Department Chair's Responsibilities
The chair of the department signs student grades in the designated area on the "Grade Report" form. The department chair's signature indicates that he/she believes that the grades for that course adhere to the academic regulations of Senate.

If the chair has reason to believe that the academic regulations of Senate have not been adhered to, he/she will consult with the faculty member and, if necessary, the college dean. If the chair, after such consultation, still believes that the academic regulations of Senate have not been adhered to, he/she must submit the grades without approval through the college dean to the Provost and Vice-President (Academic). The grades must be accompanied by a complete report. The Provost and Vice-President (Academic) will act to ensure that the academic regulations of Senate are adhered to.

The department chair should be available for consultation during the meetings of the Academic Review Sub-Committees.

The Board of Undergraduate Studies strongly encourages each chair, at his/her discretion, to conduct a periodic review of the methods of assessment, class averages, distribution of grades and failure rates in courses offered by that department to ensure that grade abuse does not occur (refer to Final Grades).

Program Counsellor's Responsibilities
The program counsellor reviews the list of "INC" (incomplete) courses, matching medical documentation, requests for academic consideration, and counselling files (refer to Deferred Privileges). The program counsellor in conjunction with the Academic Review Sub-Committee assigns deferred privileges where appropriate and forwards decisions to Enrolment Services, Office of Registrarial Services.

Registrar's Responsibilities
Enrolment Services records the examination results; notifies students of their grades via WebAdvisor; notifies program counsellors of incomplete grades; and records deferred privilege decisions (refer to Deferred Privileges).

Release of Final Grades
University grades are official on the day that they are issued to students. It is the responsibility of the Office of Registrarial Services to release the grades to the student and to record the grades on the student's official University transcript.

All grades are available through WebAdvisor. Students who require an official copy of their grade report can request an official transcript upon payment of the transcript fee.

Grades for students who have been advised by Student Financial Services, Office of Registrarial Services, that they are on academic sanction will not be released by Enrolment Services until notification/authorization is received indicating that the account has been cleared to the satisfaction of Student Financial Services. To receive grades, students must clear their sanction by the last day of classes.

Students who are required to withdraw will be notified at their mailing address.
Summer Session grades are released approximately two weeks after the conclusion of examinations. The grades and the continuation of study status are considered to be unofficial until the end of the Summer Semester.

Grade Reassessment

Grade re-assessment is the process of reviewing the calculation of grades, or the methods and criteria used to establish final grades for a student in a course or misapplication of an academic regulation. The outcome of a grade re-assessment may be a grade increase, a grade decrease, or no change to the grade. The detection of errors or omissions in the calculation of final grades will result in the assignment of a revised grade. Students normally initiate grade re-assessments, but instructors may initiate this process. However, instructors must NOT use the grade re-assessment process to:

• grant extensions for submission of work beyond course grade submission deadline (see Academic Consideration, Appeals and Petitions)
• change the student's continuation of study status
• improve the student’s program or specialization average
• submit late grades (see Final Grades)

Calculation Errors or Omissions

Students who believe there have been errors or omissions in the calculation of their final grade for a course may request a grade reassessment. They must submit a request in writing to the chair of the department offering the course no later than the 10th class day of the subsequent semester. The request must pertain to work completed during the semester. Students must also submit relevant assignments or tests that have been returned to them.

The chair shall forward the student's request to the instructor and the instructor shall respond to the chair within five class days. The instructor has the responsibility of ensuring that the calculation and totalling of marks is accurate. The instructor must reply to the chair in writing, giving assurance that the review is complete.

Where there is a change in the grade, the chair signs the "Grade Reassessment" form and forwards it to Enrolment Services, Office of Registrarial Services. The Office of Registrarial Services will advise the student in writing of the change of grade. If there is no change to the grade, it is the chair's responsibility to inform the student in writing.

Methods or Criteria Used in Establishing Final Grades

The course outline distributed to the class at the beginning of the semester defines the methods and criteria used in establishing final grades for a course. The methods and criteria must conform to the grading procedures established by Senate and be continually reviewed by the department (see Final Grades).

Students who believe that the methods or criteria used by an instructor in determining a final grade have been unfair, unreasonable or inconsistent with the course outline, should request the chair of the department offering the course to review the methods or criteria used. They should submit the request in writing by the 10th class day of the subsequent semester and should state the reasons for the request.

The chair shall make an effort to resolve the matter to the satisfaction of both parties as soon as possible. Both the instructor and the chair are free to discuss the student's work with the student or another instructor in the department, but are not obliged to do so.

If both parties are able to come to an agreement, the chair shall prepare a statement of the agreement to be signed by both parties. If the agreement results in a change to the grade of the student, the chair shall inform Enrolment Services, Office of Registrarial Services.

If at any time the chair decides that he/she cannot resolve the matter informally, he/she will terminate all efforts at reconciliation and notify both the student and the instructor of this decision. The chair will advise the student to make an appeal to the Senate Committee on Student Petitions. The student must appeal to the committee within 10 days of being advised of the termination of the chair’s efforts.

Misapplication of an Academic Regulation or Procedure

Academic regulations and procedures pertaining to grades can be found in the subsection of the "Grades" section entitled "Grading Procedures". Students who believe that the misapplication of an academic regulation or procedure has affected their final grade in a course should discuss their concern with the instructor. If the concern is not resolved to their satisfaction they may submit a complaint in writing to the chair of the department offering the course.

If the chair has reason to believe that the instructor has not adhered to the grading procedures established by Senate (see Final Grades) or other academic regulations of Senate, the chair should consult with the faculty member and, if necessary, the college dean. Ultimately, the Provost and Vice President (Academic) may have to take the necessary action to ensure compliance with the academic regulations of Senate.

Graduate Courses

Graduate courses taken by undergraduate students will not normally be credited to a graduate program at the University of Guelph.

If the graduate course is used for credit toward any undergraduate program requirement, it cannot be considered subsequently for credit toward a graduate degree at the University.

Undergraduate courses taken while registered in the Faculty of Graduate Studies cannot be used toward a baccalaureate degree program.

Graduation

A. Baccalaureate Programs

A student normally must be registered as a degree student in the program for the degree being awarded. However, a student registered in a honours program may apply to graduate from a general program in the same degree or a different degree, provided that all of the conditions for graduation for that degree have been satisfied using the calendar that is in effect at the time of application. A student with a non-degree program type is not considered for graduation; however, the student should check with his/her program counsellor for information.

Up to 50% of the requirements for a degree-credit certificate can be applied towards a degree program specialization in order to hold both a degree with a specialization and a specialized certificate.

1. Program and Calendar Requirements

The conditions for graduation are regulated by the degree programs. Program specific conditions for graduation are outlined in Section X—Undergraduate Degree Programs. Students must satisfy the schedule of studies requirements for the calendar (http://www.uoguelph.ca/undergrad_calendar/) in effect at the time of their last admission to the program or at the time of any subsequent change in majors or areas of concentration. Where students select minors or areas of emphasis, the calendar used to determine the schedule of studies is the same as the calendar used for the major. Changes in minors or areas of emphasis do not necessarily affect the calendar used to determine the schedule of studies. Students may declare a schedule of studies from an alternate calendar if program approval is obtained.

Students who are on suspension for academic misconduct will not be permitted to graduate during the period of the suspension.

2. Academic Residence Requirements

i. At least 5.00 of the credits required for graduation by the student's program must be taken at the University of Guelph.

ii. At least 60% of the 3000 and 4000 level courses required for graduation must be taken at the University of Guelph.

University of Guelph courses include courses taken on exchange and on study abroad programs, and Open Learning program courses (degree credit weight). Letter of permission courses are not included.

3. Honours Equivalent

Students from the University of Guelph or another university may upgrade a degree from the general program to the honours program to obtain an Honours Equivalent recognition. Students may also upgrade a degree from the honours program by the completion of an additional specialization to qualify for the Honours Equivalent recognition. These students must be readmitted to an honours equivalent program. All previous University of Guelph credits are eligible for consideration toward the equivalent degree from the honours program.

To be granted an Honours Equivalent, students must satisfy the University of Guelph residence requirements. In addition, students must satisfy the conditions for graduation for the specified honours program using the calendar that is in effect at the time of admission into the honours equivalent program. Normally, all degree program regulations will apply to the Honours Equivalent specialization.

The students who are granted the Honours Equivalent designation do not participate in a convocation program, but have the designation shown on their transcript and may receive a new degree parchment upon application, subject to surrender of the original degree parchment and payment of the appropriate fee. Note, parchment replacement applies to Guelph graduates only.

4. Second Degrees

Students from the University of Guelph or from another university may graduate with a second undergraduate degree from the University of Guelph, under the following conditions:

a. Students who have graduated with their first degree must apply to the University of Guelph for admission to the second degree program. A maximum of 10.00 credits may be transferred from the initial degree program.

b. In-course University of Guelph students may apply to graduate with two degrees at the same convocation. A maximum of 10.00 credits may be transferred from the declared program to the undeclared program.

In a) and b), the course content of the second degree program must be substantially different from that of the first. A second degree is judged to be substantially different if:

• The specializations are in different subject areas as listed in Section XII—Course Descriptions; or
• The schedule of studies requirements are substantially different (no more than 25% overlap). This rule is also applicable to different subject areas within the same degree program, allowing, for example, a second B.A. or B.Sc. degree to be awarded as long as the criteria are met.

Last Revision: Oct. 19, 2012
Enrolment Services processes those applications received prior to the deadline and forwards a confirmation of both the receipt of the application and the information supplied by the student and advises students of the date and time of the convocation ceremonies.

Enrolment Services forwards Academic Evaluation and check sheets to department chairs to obtain decisions on eligibility of the applicants. Enrolment Services informs students not approved by the department of the rejection and the reasons for it.

The Convocation Coordinator will present a list of all recommended graduates to the Assistant Vice-President (IRP) & Registrar for approval.

D. Standing on Graduation

Standing on graduation is noted only for graduates from the honours programs as follows:

- **Degree with Distinction** - Cumulative average of 80% or higher.
- **Degree with Honours** - Cumulative average of 70-79%.
- **Degree with Standing** - Cumulative average of less than 70%.

Standing is only based on the internal University of Guelph academic record. For the DVM Program standing on graduation is based on the average of the marks received for those courses completed after admission to the program.

E. Notation on Transcript

Official transcripts from the University of Guelph will not show that a degree has been conferred until after the convocation.

Letters of Confirmation of Enrolment

A student who requires a letter confirming attendance at the University in a given semester should make this request to Enrolment Services, Office of Registrarial Services.

Letters of Confirmation of Graduation

A student who requires a letter confirming graduation from the University should make this request to the Convocation Clerk, Enrolment Services, Office of Registrarial Services.

Letters of Permission

A student at the University of Guelph who wishes to enrol in a course for credit at another institution and have that course considered as a credit toward a University of Guelph degree, must complete a "Request for Letter of Permission" form, available from the program counsellor, and obtain the appropriate approvals as indicated on the request form, prior to applying for admission to the other institution.

Credit for successful completion of such courses will be granted at the University of Guelph if a letter of permission has been presented to the Office of Registrarial Services prior to the student's enrolment at the other institution. A student taking a course on a letter of permission is responsible for ensuring that the other institution forwards the official transcripts directly to Enrolment Services, Office of Registrarial Services. If the transcript for the course taken on a letter of permission is not received by the 20th class day of the semester following completion of the course, a grade of "F" will be entered on the student's internal academic record.

Students are required to complete the courses specified on the "Letter of Permission" during the semester(s) specified on the "Letter of Permission". If the student registers in additional semesters or courses that are not approved by the University of Guelph, the student must apply for readmission.

Withdrawals or non-registration in courses taken on a letter of permission must be verified by official documentation from the other institution. Any changes in the courses taken must have the appropriate approvals from the University of Guelph.

All courses for which letters of permission have been granted, will be included in all internal academic records, but not in the official transcript of the University of Guelph. These courses will not count as course attempts under the continuation of study regulations. Courses taken on a Letter of Permission will not count in the semester average or the overall academic average.

Students do not normally qualify for a letter of permission in the final semester of their degree program.

Caution: when selecting courses to take on Letter of Permission you should be aware that you may not be able to get into the courses selected. For instance, courses may be full, may have been removed from the schedule, or may conflict with other courses. For this reason, you are encouraged to select more courses than needed but indicate clearly on the Request for Letter of Permission form the number of courses that will be taken. If you need to take a course not listed on the form, you should make every effort to contact your program counsellor in advance of registering in another course in order to obtain approval for the equivalent credit. Departments reserve the right to deny credit equivalency to a course taken without prior approval.

2013 Undergraduate Calendar
Priority Access Courses

In cases where enrolment demand habitually exceeds course capacity and there is demonstrated need to restrict access to a particular cohort of students on a priority basis, departments may request the implementation of course restriction rules to ensure priority access to the appropriate student group(s) during the course selection process. The system will provide a message at the time of course selection for students who do not meet the enrolment criteria. In special cases the department may override the restriction by authorizing entry to the course with a signature on a "Course Waiver Request" form using the "Course Restriction Waiver" box.

Departmental requests for course restriction rules must be directed to the Co-ordinator of Undergraduate Curriculum who will determine if the request is acceptable and will then work with the department or school to develop the appropriate enrolment criteria and confirm that the restriction can be monitored. In general, course restrictions should be clearly defined in the calendar course listings so that students are advised in advance of the intended audience for the course.

New restrictions or changes to existing restrictions must be approved prior to the course selection period in which they are to be implemented.

Prior Learning Assessment

Prior Learning Assessment (P.L.A.) is a mechanism whereby students who have acquired substantial experience in a non-traditional environment have an opportunity to challenge whether such learning is equivalent to a course(s) offered at the University. Note: P.L.A. will only be available to a student if sufficient evidence is provided that the course material was acquired outside a degree program at a University. A request to challenge a course that has already been attempted at university will not normally be granted.

P.L.A. is not open to students who simply wish to challenge a course. Students will be required to sign a contract stating that the learning occurred other than in a university course. Not all courses are appropriate for challenge. Each department has the responsibility of determining which of its courses may be subject to a P.L.A. challenge. The challenge process could include one or more assessment methods, including standardized tests, written and/or oral examinations, performance evaluations, interviews, and portfolio assessment. All these assessments require that the individual demonstrate, to a qualified faculty member(s), that pre-determined knowledge and skills have been acquired.

The maximum number of credits a student can challenge is 5.00 for degree programs, or 30% of the certificate requirement for open learners. Credits acquired through P.L.A. will be assigned credit status (CRD) and will be on the official transcript. Students wishing to challenge a course(s) should contact Enrolment Services to obtain an application form. A request must include a clear statement as to the course(s) the student wishes to challenge, an explanation of how the knowledge necessary for the course was gained, and any relevant supporting documentation to validate the claim. Requests will be forwarded to the appropriate department(s) for evaluation. Upon receipt of the response from all the departments concerned, Enrolment Services will inform the student which, if any, courses have been approved for challenge.

If a challenge has been granted, the department will determine the nature of the assessment and the deadline by which the work must be complete. It is the student's responsibility to contact the department with respect to the details of the assessment within three weeks of being informed by Enrolment Services of being granted the privilege. Upon completion of the assigned task(s), the department will inform the Office of Registrarial Services as to the student's success or failure of the challenge.

Those students (a) whose application for a challenge is reviewed by the faculty members of the department concerned, and who are subsequently denied the opportunity to challenge, or (b) who fail a challenge examination, may appeal the decision first to the chair of the department, and subsequently, if necessary, to the dean of the college.

Chapter VI Schedule of Fees - outlines the applicable fees for Prior Learning Assessment.

Readmission

Previously registered students must apply to Admission Services for readmission under any of the following conditions:

1. If they were required to withdraw from their program for a period of two or more semesters.
2. If they were suspended from the University for academic misconduct.
3. If they have graduated from this University and wish to register in order to take additional courses.
4. If they registered in a program at another post-secondary institution and wish to return to the University of Guelph.
5. If they have not registered at the University of Guelph for six or more consecutive semesters.
6. If they are attending the University of Guelph on a letter of permission and wish to continue past the term of the letter of permission agreement.

Readmission to a program at the University of Guelph is not automatic. Students who are required to withdraw must apply for readmission to the University after completing the minimum two semesters of rustication. Students should consult Section IV - Admission Information regarding appropriate admission requirements and deadline dates. Applications for readmission should include a statement which outlines the basis for readmission. Criteria used for readmission may differ by academic program. Students considering readmission should consult with the appropriate program counsellor regarding procedures and criteria for readmission to that program.

Students requiring readmission must apply to Admission Services, Office of Registrarial Services, University Centre, Level 3. Applications for readmission must be submitted by the deadline date established for each semester (see Section III--Schedule of Dates). An application fee is payable at the time the application is submitted (see Section VI--Schedule of Fees).

On December 19, 1995, the University Senate approved the following policy for the granting of credit while on rustication:

1. Students who have been required to withdraw, and who take university credit courses during their rustication period, will be eligible for up to 1.00 credit provided they meet the criteria for readmission and the criteria for the transfer of credit. Students registered for courses through the Open Learning Program, are not permitted to attend courses on campus.
2. Students who take university courses after the two-semester rustication period may transfer all the credits provided the student meets the criteria for readmission and the criteria for the transfer of credit.
3. Students who have been suspended for academic misconduct will not receive any credit for courses taken during the suspension period.

Note: This policy applies to any university credit course taken during the rustication period.

Registration

A student is considered as registered for a particular semester only when courses to be attempted for that semester have been reported to the Registrar no later than the end of the add period and financial arrangements, satisfactory to Student Financial Services, have been made for the associated tuition and other fees. Coincident with the registration process, students may complete other business arrangements with the University such as reporting of address information, residence payments, meal card contracts, parking permits, and receipt of identification cards.

In-Course Students

All in-course students must complete the registration procedures prior to the deadline dates as published in Section III--Schedule of Dates.

While advance billings will be available on WebAdvisor, to students who have indicated an intention to register in a particular semester, it is the responsibility of all in-course and returning students to ensure that satisfactory arrangements are made with Student Financial Services prior to the deadline. Students who have not received the advance billing should contact Student Financial Services in order to make payment. Arrangements for registration after the deadline date will be assessed an additional late registration fee.

Students who are readmitted will be advised of registration procedures. Questions should be directed to Enrolment Services.

Note: In-course students who complete the registration procedures are advised that this registration is conditional on their eligibility for continuation of study into that semester. A student who is required to withdraw will not be allowed to attend classes, the registration will be cancelled and an appropriate adjustment automatically will be applied to the student's account (see also--Withdrawal).

The procedure is as follows:

1. Approximately 2-3 weeks before the deadline, a billing statement is on WebAdvisor, to students who have selected courses.
2. Students must make payment to Student Financial Services by the deadline. Payments received after the deadline will be assessed a late registration fee.

General System In-course Students (Fees)

The registration procedure is conducted through WebAdvisor. The registration procedure will allow all in course students to complete their financial arrangements with Student Financial Services before the upcoming semester. The billing form will reflect the course selection data, also your accommodation and meal plan status if available, and is to be returned with suitable arrangement to Student Financial Services. The deadline for payment is indicated in Section III--Schedule of Dates., of this calendar. Failure to meet the deadlines will result in an additional fee adjustment. Mailings by the University will be made to the University email account, the on-campus P.O. Box, and/or the mailing/home address per the University's student address policy.
Registration is conditional on being eligible to continue in your program of study. Students who are required to withdraw will not be allowed to attend classes as their registration will be cancelled immediately and a full refund of fees will be made as soon as possible. Students required to withdraw who subsequently are re-admitted or who transfer to another program or who become eligible to proceed through appeal must report to Enrolment Services, Office of Registrarial Services to have their registration status confirmed and add their courses.

Registration may be completed by one of the following methods:

- On receipt of payment. **DO NOT SEND CASH IN THE MAIL**
- An approved "Staff Registration and Tuition Waiver Request" form (for qualified full-time University employees only).

**PAYMENTS RECEIVED THROUGH THE MAIL MUST BE POST-MARKED ON THE DEADLINE DATE OR EARLIER TO AVOID THE ASSESSMENT OF A LATE REGISTRATION FEE.**

**Parking Payments**

Students wishing to pay for a parking permit are asked to include the appropriate payment in accordance with the schedule in Section VI--Schedule of Fees with their total payment submission. Students who comply with this procedure will receive their parking decals in the mail prior to the commencement of classes.

**Changes to Preprinted Calculations**

Students who have changed their mind concerning the number of credits they wish to take are advised to write the correct amount on the billing form. Please refer to the fee schedule included with your billing form.

Changes to residences calculation, including meal plans, must be cleared through the Student Housing Services or Hospitality Services.

**Cancellation/Withdrawal Procedure**

If you have paid and wish to cancel your registration before classes begin please call Enrolment Services, Office of Registrarial Services and a full refund will be arranged. Students are advised that there is a withdrawal procedure as of the first day of classes (see Withdrawal).

Once the payment has been submitted, please do not put a stop payment on your cheque. This does not constitute cancellation and will only result in a cheque refusal fine being charged.

**Hospitality Services, OSAP, Parking**

Each of these departments have information which will be distributed to students for the semester in question under separate cover, e.g. location for picking up meal cards, location to pick up OSAP grant/loan cheques, procedure to use for payment of parking decals.

**Return Mail Box Locations (Internal Mail)**

The University has on-campus mail boxes which may be used to return registration payments. All mail is picked up daily and is post-marked by Mail Services.

**Late Registration**

Students who do not register by the time designated as the registration deadline for the semester in question are subject to additional fee adjustments. Exceptions will only be made for acceptable reasons with documented evidence. The fee schedule for late registration is published in Section VI--Schedule of Fees. A student will not normally be allowed to register after the end of the Add period. Appeals against the additional fee adjustments must be made in writing to the Secretary of the Appeals Committee, by contacting the Enrolment Services, Office of Registrarial Services within 10 class days of the commencement of classes. Appeal forms are available from Enrolment Services.

**Department Chair's and Dean's Responsibilities (New Student Registration Only)**

In the event that new students will be delayed for registration because of University sponsored trips or courses the department chair concerned should forward a list of participating students to the dean/director of the college/school for approval. The approval list should then be forwarded to the Associate Registrar, Enrolment Services, and specific procedures for late registration will be arranged.

**Schedule of Studies**

If students have not done so upon entering a degree program, they must declare a major by entry into semester 3 of their degree program. The University monitors the student's progress toward a degree using both the degree program requirements and the schedule of studies requirements. Students must satisfy the requirements in effect at the time of the initial declaration of a schedule of studies or at the time of any subsequent change in declarations. When degree program requirements or schedules of studies are altered by the University, a student may elect to satisfy the requirements in effect when the student entered the degree program, or its equivalent, or a subsequent schedule within a degree program. Students wishing to alter the schedule used to monitor their progress should seek assistance from a program counsellor (refer to Section VII - Academic Advising).

**Scheduling**

**Undergraduate Course Timetable**

The scheduling of all undergraduate courses is the responsibility of the Assistant Registrar, Scheduling.

The scheduling cycle for each Fall and Winter semester commences approximately one year in advance. Since returning students select Summer courses in March, at the same time they select Fall courses, the Summer scheduling cycle is contemporaneous with the Fall cycle. Course scheduling request data is due in Scheduling for Summer and Fall semesters at the end of the preceding September, for Winter semesters at the end of the preceding March; specific dates to be established in Scheduling each year. The official timetable for each semester is published on WebAdvisor two weeks prior to the commencement of the initial Course Selection period for that semester (for Summer and Fall in mid-February, for Winter in mid-September.)

All courses are scheduled according to the Senate approved slot system which allows for 3 x 1 hour slots meeting at the same time on Monday, Wednesday and Friday, 2 x 1.5 hour slots meeting at the same time on Tuesday and Thursday and 3-hour evening slots M-F. This basic grid is overlaid with 1x 3 hour slots and slots for other approved class formats (e.g. 1 x 4 hr) in such a way as to minimize course conflicts and maximize efficient use of teaching space. Courses may also be published with time “TBA”. In these cases it is the responsibility of the department/school to communicate first meeting information to registered students prior to the commencement of classes. Prior to the commencement of classes, regular class meeting times may not be assigned to classes published as “TBA”. If a department/school wishes to assign times for regular class meetings after the commencement of classes, registered and (within the Add period) interested students must be consulted. The times selected for regular class meetings must be unanimously supported by students in a secret ballot, and comply with all scheduling regulations.

The University scheduling day runs from 0830-1730 and 1900-2200; Senate has approved the 1730-1900 “University Time” as a period which shall be free of all regular class meetings, labs, and seminars.

**Chair/Director’s Responsibilities**

The Chair/Director or the designated Department/School Timetable Coordinator is responsible for the following:

1. Submitting to the Assistant Registrar, Scheduling, no later than the established deadline, and as per Scheduling instructions, complete requests for courses to be offered in the subsequent academic year.
2. Acting as liaison between instructors and Scheduling in all aspects of scheduling, including collecting information relevant to course scheduling from instructors, submitting it appropriately.
3. Ensuring all courses are offered in the semester and format indicated in Section XII of the Undergraduate Calendar.
4. Approving the department’s course schedule before publication. This involves checking that no conflicts exist in instructor or program schedules.
5. Calculating projected enrollments for the subsequent academic year and monitoring enrollments through course selection periods, making adjustments to course capacities and the availability of sections as necessary.
6. Advising Scheduling immediately of changes to instructor assignments. Where late instructor assignments are necessary, assigning instructors in such a way as to avoid conflicts.

**Instructor’s Responsibilities**

1. Instructors are responsible for communicating to the Chair/Director or Department Timetable Coordinator, prior to the deadlines established within their department/school, any information relevant to the scheduling of courses in the subsequent academic year.
2. Instructors are expected to familiarize themselves with rooms assigned to their courses in advance of the commencement of classes.

**Registrar’s Responsibilities**

The Assistant Registrar, Scheduling, taking into account requests from academic units for preferred class times, creates the university timetable according to the following priorities:

i. No course conflicts exist in core courses as published in the schedule of studies in the Undergraduate Calendar.
ii. The number of elective courses available to students is optimized.
iii. Classroom space is allocated to courses on the basis of projected enrollments provided by the offering departments, and in such a way as to maximize the effective and efficient use of teaching space.
iv. No instructor conflicts exist.
v. Departmental requirements, requested by the Chair/Director or Department Timetable Coordinator, are met where possible.
Changes to the Published Undergraduate Course Timetable

Additional Hours/Sections
If it becomes necessary to schedule additional sections by adding lectures/labs/seminars based on course selection numbers, the request for scheduling is to be initiated by the Chair/Director or Department Timetable Coordinator and made to the Assistant Registrar, Scheduling.

Cancellations and Time Changes
Once the course timetable has been published on WebAdvisor, requests for changes to class meeting times cannot be processed except in emergency circumstances and as approved by the Office of the Associate Vice-President (Academic). To obtain the approval of the AVPA in such circumstances, to change a class meeting time or to cancel a course, the Chair/Director should write via electronic mail, providing reasons for the request, to the Coordinator of the Undergraduate Curriculum (CUC), the appropriate Dean, and the Assistant Registrar, Scheduling. After the commencement of Course Selection, the Chair/Director is responsible for ensuring that students are not disadvantaged by any changes. This involves choosing alternate times that are conflict-free for all registered students, and communicating via electronic mail to all students the details of any change affecting their schedules.

- Time changes after the publication of the timetable, prior to the commencement of classes. Changes in scheduled meeting times are approved only in emergency circumstances (see above).
- Time changes after the commencement of classes. After the commencement of classes, changes to scheduled meeting times are permitted. Changes may be initiated by the instructor with his/her class, but are normally not made until after the end of the Course Selection/Add period unless the change is to accommodate students who would otherwise be unable to register in the course. Time changes made after the commencement of classes must not create conflicts for any registered students and must have the unanimous written approval of all registered students as determined by a secret ballot. New times must comply with University scheduling regulations and the academic unit offering the course should keep a record of student approval on file. Once approval is obtained, a request for the time change and new room assignment should be submitted by the Chair/Director or Department Timetable Coordinator to the Scheduling Coordinator so that the time and room can be updated on WebAdvisor. The instructor is responsible for ensuring that all registered students can attend during the new meeting times and for informing students of new times and room assignments.

Classroom Assignment
The Assistant Registrar, Scheduling assigns classrooms for regularly scheduled classes in such a way as to maximize the accommodation of enrollment numbers, access to presentation technology and other classroom attributes as requested by the offering department, accommodation of instructor or student disability, and the effective and efficient use of the central classroom inventory.

The Chair/Director or Department Timetable Coordinator should send requests for the assignment of alternate teaching space to Scheduling as required by changing enrollment numbers. Scheduling reassigns classroom space as necessary and as availability permits. Course enrollment must not exceed the capacity of rooms assigned to courses. Until additional classroom space can be assigned, additional students are not registered. In special circumstances, approval may be granted by the Assistant Registrar. Scheduling for small classroom overloads as part of an overall enrollment management strategy.

Instructors requesting classroom changes for other reasons should forward their request through their Chair/Director or Department Timetable Coordinator to the Scheduling Reservations Clerk via electronic mail. Note that to ensure that highest priority needs are met first, and to reduce confusion on campus at the beginning of the semester, Scheduling cannot accommodate requests for classroom changes in the week preceding the commencement of classes or the first two weeks of classes. Exceptions are made for 1) enrollment changes 2) student/instructor disability 3) exceptional circumstances as approved by the Assistant Registrar, Scheduling. Requests made for other reasons will be neither accepted nor accommodated during this three-week period.

If classroom space assigned to a course is not required, instructors should inform their Chair/Director or Department Timetable Coordinator, as soon as possible so that Scheduling can be advised to free the space for other uses. If rooms are required only occasionally for classes, they should not be held for full semesters, rather one-time or temporary bookings should be made through the Scheduling Reservations Clerk, as below.

Other Classroom Bookings
For non-regularly scheduled classes, meetings, academic conferences, tests, etc. classroom bookings may be made through the Scheduling Reservations Clerk by University of Guelph faculty, staff and students. Please send requests by electronic mail to classroomreservations@registrar.uoguelph.ca.

Staff Registration and Tuition Waiver
Those staff who are eligible for tuition waiver must complete a "Staff Registration and Tuition Waiver Request" form and submit it to Human Resources.

It is essential that staff follow the normal procedures for contacting Enrolment Services, Office of Registrarial Services, Level 3, University Centre, regarding their selection of courses.

If the "Staff Registration and Tuition Waiver Request" form is not submitted and approved by Human Resources you will not be officially registered for the term.

In addition to completing the "Staff Registration and Tuition Waiver Request" form, you also must add your courses using WebAdvisor or submit an "Undergraduate Course Request" form outlining the course(s) you wish to take. The "Undergraduate Course Request" form can be submitted during the official course selection periods or during the "Add" process at the beginning of each semester.

Student Type
Each full-time or part-time student is registered as one of the following:

Regular
A student with student type "Regular" is registered in the regular course requirement for a program.

Special
A student with student type "Special" is admitted to a program and is required to complete course or program deficiencies necessary to proceed under the "Regular" student category.

Supplemental Privilege
A Supplemental Privilege is the opportunity for a student to obtain credit for a course he/she has failed by completing additional course requirements as determined by the instructor. A student must apply to the Academic Review Sub-Committee for a supplemental privilege no later than the fifth day of classes of the semester following the failure (see Failed Courses Failed Courses in this section).

Academic Review Sub-Committee's Responsibilities
The Academic Review Sub-Committee, upon receiving a request from the student, will consult with the course instructor to obtain information on the student's performance during the course, the instructor's recommendation concerning the appropriateness and feasibility of a supplemental privilege, and the nature of the supplemental privilege. If the Academic Review Sub-Committee approves the request, the department (instructor) responsible for the course will determine the nature of the privilege, which could be a written exam, an oral exam, an assignment, a laboratory practical, or any other method or combination of methods of evaluation. Enrolment Services will inform student and instructor of the Sub-committee's decision.

Chair/Director's Responsibilities
1. In the case where the Academic Review Sub-Committee or student is unable to make contact with the instructor to determine the details of the supplemental privilege, taking necessary steps to assist in determining the requirements for completing the supplemental privilege.
2. Initiating all decisions submitted by instructors upon the completion of a supplemental privilege by individual students (i.e. pass or fail). These decisions will be forwarded to Enrolment Services, Office of Registrarial Services, by the thirty-sixth class day of the semester following the failure.
3. In the case of Supplemental Privileges which take the form of an examination written with the Examination Coordinator, scheduling, collecting completed examination papers from Scheduling when notified; immediately distributing the completed examination papers to the appropriate instructor for marking.

Instructor's Responsibilities
An instructor should not proceed with any supplemental privilege for a student until official notification of the granting of the privilege has been received from the Academic Review Sub-Committee or the Office of Registrarial Services.

1. Upon request from the Academic Review Sub-Committee, the instructor will:
   - provide the performance record of the student for the course
   - make a recommendation as to the appropriateness and feasibility of a supplemental privilege
   - indicate clearly the conditions that would be necessary to ensure that the requirements for the course are fulfilled
2. If the Academic Review Sub-Committee grants consideration, and upon request from the student, the instructor will complete a form advising the student of the exact nature and due dates of the requirements for the supplemental privilege.
3. If the requirement includes, or takes the form of, the satisfactory completion of a two-hour examination to be supervised by Scheduling, the instructor will indicate this on the recommendation to the Academic Review Sub-Committee. By the Wednesday of the third week of classes, the instructor shall send to Scheduling, Office of Registrarial Services an examination for each student granted such a privilege, plus one extra copy per course. If the exam is significantly different from another two-hour exam already completed by the student, the instructor must make this clear on the form provided to the student. For example, if the student had originally been assessed on a final exam covering only the last four weeks of the semester, and is now to be assessed on a comprehensive two hour exam, the nature of the new examination must be communicated to the student at the time the supplemental privilege is granted.

4. Within ten days of completion of the supplemental privilege requirements, the instructor will forward to the Chair/Director an indication as to whether the student has passed or failed the supplemental privilege. The supplemental privilege should be completed by at least the thirtieth class day of the semester following the failure.

**Student's Responsibilities**

1. The student must request a supplemental privilege by submitting the request to the Academic Review Sub-Committee and the fee for the privilege (refer to Section VI--Schedule of Fees) no later than the fifth class day. Students are encouraged to submit their request before classes begin to allow for receipt of a decision within the Add period. The granting of the request is normally limited to the described special circumstances having due regard for the student's performance in the course. Course requirements and the student's previous performance may play a significant role in determining whether a privilege is appropriate and/or feasible.

2. If the student is unable to make contact with the instructor, the Chair/Director of the department/school offering the course must be contacted. If the required contact is not made the University will assume that the student does not intend to complete the requirements, and the supplemental privilege will be cancelled.

3. In the case of an examination supervised by the Office of Registrarial Services, it is the student's responsibility to appear on the correct date and time as designated by the Office of Registrarial Services.

4. If the requirement is beyond an examination supervised by the Office of Registrarial Services, the student must contact the instructor within 5 days of notification in order to clarify the details of the condition. Students are advised to have the instructor complete a form indicating the exact nature and due dates of the supplemental requirements, which may also include the satisfactory completion of an examination supervised by Scheduling, the Office of Registrarial Services Section III--Schedule of Dates.

**Registrar's Responsibilities**

1. When a supplemental privilege has been requested, but not granted by the Academic Review Sub-Committee, Enrolment Services will inform both the student and the instructor. Similarly, when a supplemental privilege has been requested and granted, Enrolment Services will advise the student and the instructor of the decision.

2. Scheduling, Office of Registrarial Services will prepare an examination timetable for those students granted a privilege that includes, or takes the form of, a two-hour examination to be supervised by Scheduling. Scheduling will inform the student and instructor of the date, time, and location of any examination to be supervised by them. Examinations supervised by Scheduling as part of the supplemental privilege process are normally scheduled during the deferred examination period (refer to Section III--Schedule of Dates). The Examination Coordinator, Scheduling is also responsible for coordinating these examinations and preparing the completed examinations for pickup, notifying the Chair/Director or designate when they are available.

3. Enrolment Services, Office of Registrarial Services, will inform students of the results of the completion of the supplemental privilege and update the student's record where appropriate.

**Transcripts**

An official transcript may be ordered by submitting the "Request for Transcript" form along with payment to Enrolment Services, Office of Registrarial Services. The order can be placed by mail, facsimile or in person:

- **Mail (cheque or money order):** Undergraduate Transcripts, Enrolment Services, U.C. Level 3, University of Guelph, Guelph ON N1G 2W1
- **Facsimile (credit card number with expiry date):** 1-519-763-6809 Attn. Undergraduate Transcripts

The transcript fee is listed in Section VI--Schedule of Fees. Students must have met all financial obligation to the University before official transcripts can be released for any purpose.

Transcripts are normally prepared within three to five working days, however, during busy periods (e.g. common application deadlines) preparation time may be as long as seven to ten days.

Official transcripts from the University of Guelph will show that a degree has been conferred **only after** the date of convocation.

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**Transfer of Program**

University of Guelph students wishing to transfer from one degree program to another (e.g. from B.Sc. to B.Eng. or from B.A. to B.Comm.) are required to submit an application form to Admission Services. Forms are available from Admission Services, third floor of the University Centre.

To clarify possible conditions or requirements for transfer, students are encouraged to consult with the admission counselor for the program to which they wish to transfer before submitting their application. In cases where the student's performance has been inconsistent, the applicant must also submit a comprehensive support letter outlining the reasons for transfer as well as any factors contributing to the previous academic performance.

1. **Procedures for Currently Registered Students**

Course selection should be completed for the new program. The admission decision will be made after grades from the current semester are available and after the deadline date for course selection. The drop and add procedure must be used if the application is submitted after the course selection deadline date and if course selection has been completed for the current program.

Fee changes necessitated by the change of program will be calculated automatically by Student Financial Services.

The admission decision will be sent to the student's Campus Post Office Box during the first week of the following semester.

Students who have received an offer of admission which they wish to decline must contact Admission Services within the first 10 class days and complete the Cancellation of Program Transfer form. Students who fail to decline the offer will remain registered in the new program. All students must verify their course selection with their departmental advisor to ensure compatibility with their program of study.

2. **Procedures for Students who are Not Currently Registered**

An admission decision will be reached as soon as possible after receipt of the application and any supporting documentation.

Admission decisions will be mailed to the mailing address, if in effect, or to the permanent address. Information on mail registration and instructions concerning course selection will be sent under separate cover by Enrolment Services.

**Note:** Students who wish to transfer from one specialization to another in the same program (e.g. from Biological Science to Chemistry in the B.Sc. Program or from Drama to Sociology in the B.A. Program) are not required to apply to Admission Services. Such students should contact the departmental advisor for the specialization in which they wish to register. Students wishing to change specializations within the B.A.Sc. or B.Comm. Programs should consult with their program counsellor.

**Verification Notice**

During the third week of classes Enrolment Services, Office of Registrarial Services, will send to each student registered at the University a copy of his/her current academic evaluation that also is available through WebAdvisor. This will indicate the personal and program information that is currently on file in Enrolment Services, Office of Registrarial Services. This report is to be used to advise students of their current status and to correct any errors in reported information. Corrections or amendments to that information may be made upon presentation of appropriate documentation to Enrolment Services, Office of Registrarial Services as follows:

- Changes to specialization information or course information must be substantiated with your copy of either the class schedule or the "Undergraduate Change of Studies Request" form.
- Changes to personal information may require presentation of appropriate documentation.

**Note:** Report missing or corrected items only.

Student hardcopy files are destroyed after 7 years of inactivity (e.g. no registrations) or one (1) semester after a student has graduated. In these cases the transcript is the only official file available from the Office of Registrarial Services that can be referenced during an appeal.

Students should familiarize themselves with the procedures regarding Academic Consideration, Grade Reassessment and Petitions.

**Withdrawal**

This section provides a summary of rules and regulations with respect to various types of withdrawal from the University. In some instances other sections of the calendar are referenced and these also should be consulted to ensure that a full understanding of the regulations is obtained. There are two types of withdrawals: voluntary or required.
Voluntary Withdrawal

Students who complete the procedure for registration (selection of courses and payment of fees) and who subsequently decide not to attend that semester may cancel their registration by notifying Student Financial Services up to but not including the first class day. Student Financial Services will arrange for the appropriate refund of fees paid. For the Fall semester the required minimum registration deposit will automatically be forfeited. Please refer to “Refunds” in section VI - Schedule of Fees for specific details. Commencing with the first day of regular classes the formal withdrawal procedure from the University is required and outlined below.

A student intending to withdraw from the University must notify Enrolment Services, Office of Registrarial Services in writing and complete the Notice of Withdrawal procedure. Students contemplating withdrawal are urged to meet with their program counsellor to discuss the implications of withdrawal. A student receiving financial assistance through the Ontario Student Assistance Program is strongly advised also to contact Student Financial Services regarding the status of their award upon withdrawal.

The timing of the withdrawal and the reasons for it may have academic and financial implications. Up to the 40th class day, a student may withdraw without academic penalty. However, unless the withdrawal is for illness or compassionate grounds, students will be liable for fees payable in accordance with the refund schedule (see Section VI - Schedule of Fees regarding Refunds). Students seeking a refund on grounds of illness or compassionate circumstance must provide documented evidence related to the grounds to Enrolment Services, Office of Registrarial Services, within thirty days of the withdrawal.

A student who withdraws from the University after the fourthieth class day of the semester, other than for illness or compassionate reasons will be considered to have failed the courses for which the student is registered at the time of withdrawal. Students seeking academic consideration on grounds of illness or compassionate circumstance must appeal to the Academic Review Subcommittee for their program (see Academic Consideration in this chapter). Depending on the timing and circumstances students may be able to obtain a fee refund after the fourthieth class day. Students should consult with Enrolment Services or their program counsellor.

A student who withdraws from the University must return all outstanding loans from the Library immediately upon withdrawal regardless of the original due date. Any items not returned will be declared "lost" and charged to the student’s account.

Students who do not register in a program of study for six or more consecutive semesters are required to apply for readmission. Students who are studying on exchange programs, study abroad, or work terms are considered to be registered at the University (see Time Limitations in this chapter).

Required to Withdraw

Students may be required to withdraw for reasons of academic performance or academic misconduct.

a. Academic Performance (please refer also to the section on Continuation of Study for detailed requirements)

Students who do not meet the continuation of study requirements for at least probationary status at the end of the winter or summer semesters will be required to withdraw and the two-semester rustication period will begin effective the subsequent semester.

At the end of the fall semester a student whose cumulative or semester average is below the level for probationary status at the end of the fall semester has two options:

i. The student may choose to accept “Required to Withdraw” status effective with the beginning of the subsequent winter semester. This means that the two-semester rustication period will begin immediately; or

ii. The student may register and continue in his/her program on probationary status for the winter semester. Failure to achieve the required semester average for probationary status at the end of the winter semester will result in the student being required to withdraw. In this case, the two-semester rustication period will begin effective the summer semester. Note: If a student registers and subsequently withdraws from the winter semester, the required to withdraw status will apply immediately.

Students who are granted a deferred privilege (examination or condition) will have their Continuation of Study Status assessed once the deferred privilege is complete. At that time an assessment of required to withdraw could have an impact on the student’s current registration.

b. Academic Misconduct (refer also to the full Academic Misconduct Policy in this chapter)

One of the penalties that may be assessed against a student found guilty of academic misconduct is suspension from the University for a period of between two and six consecutive semesters. The effective date of such a suspension is determined by the dean responsible for the case.

c. Appeals (refer also to the sections on Academic Consideration and Academic Misconduct for full details of appeals processes)

Students who do not satisfy the program requirements for continuation of study and are required to withdraw may appeal for probationary status to the Academic Review Subcommittee, and subsequently the Senate Petitions Committee, on medical, psychological, or compassionate grounds. Students are not permitted to attend classes until such time that the appeal is granted.

Students who are suspended from the University as a result of academic misconduct, may appeal to the Senate Petitions Committee with respect to either the appropriateness of the penalty or the finding of guilt.

Readmission (refer also to the section on Readmission, earlier in Chapter VIII)

Students who meet one of the following 3 criteria must apply to Admission Services for readmission:

a. were required to withdraw from their program for a period of 2 or more semesters; or

b. were suspended from the University for academic misconduct; or

c. have not registered at the University of Guelph for 6 or more consecutive semesters.

Readmission to a program at the University of Guelph is not automatic. Students should consult Section IV - Admission information regarding appropriate admission requirements and deadline dates. Applicants for readmission should include a statement which outlines the basis for readmission. Criteria used for readmission may differ by academic program. Students considering readmission should consult with the appropriate program counsellor regarding procedures and criteria for readmission to that program.

Students who withdraw without academic penalty after the termination of the official drop period for medical or psychological reasons must clear their re-entry in a subsequent semester through the dean of the college concerned. Students who withdraw on more than two occasions may be required to meet with the dean in order to clear their re-entry into a subsequent semester. At the discretion of the dean, the condition of re-entry may be a recommendation of either Student Health Services or the Counselling Unit of the Counselling and Student Resource Centre that re-entry is advisable. Students who wish to appeal the decision of the dean have recourse to the Senate Committee on Student Petitions.

A student who wishes to be considered for readmission following a suspension for academic misconduct must make an application that will be judged on the basis of eligibility to continue. A student who is suspended for academic misconduct and also fails to meet the continuation of study requirements will normally be required to serve the associated penalties consecutively.

A student who has been expelled from the University for academic misconduct is not eligible for readmission to the University for at least five years. A student who wishes to be considered for readmission must petition the President to have the expulsion status removed (please refer to the Academic Misconduct Policy for detailed procedures).

Granting of Credit while on Rustication

Senate’s Policy on granting of credit for work done while on rustication is outlined below. It applies to any university credit course taken during the rustication period.

a. Students who have been required to withdraw for reasons of academic performance and who take university credit courses during their rustication period, will be eligible for up to 1.00 credit provided they meet the criteria for readmission and the criteria for the transfer of credit. Students registered for courses through the Open Learning Program, are not permitted to attend courses on campus.

b. Students who take university courses after the two-semester rustication period or after a period of suspension may transfer all these credits, provided the student meets the criteria for readmission and the criteria for the transfer of credit.

c. Students who have been suspended for academic misconduct will not receive any credit for courses taken during the suspension period.
IX. Scholarships and Other Awards

General Statements on Awards

The Senate of the University of Guelph is charged with the responsibility "to deal with all matters arising in connection with the awarding of fellowships, scholarships, bursaries, medals, prizes and other awards" (University of Guelph Act). In carrying out these responsibilities, Senate has established various policies regarding awards and scholarships, and approves the terms and conditions attached to such awards. Each College has a College Awards Committee, which is responsible for the awarding of scholarships and bursaries in the programs under its authority. In addition, Student Financial Services is responsible for awarding bursaries on the basis of financial need, and evaluating the needs component of Scholarships with Financial Need. Some scholarships and bursaries are open to all students regardless of degree or diploma program and others are restricted to students in particular degree programs/majors/ or departments. Students entering the 1st semester of their first undergraduate degree should consult the "Entrance Scholarships" and "Entrance Scholarships with Financial Need" sections of the calendar for a listing those awards for which they may be eligible. In-course students currently registered at the University of Guelph should refer to the "In-course" sections for a listing of awards for which they may be eligible. Also refer to Section VIII—Undergraduate Degree Regulations and Procedures, Academic Misconduct, Penalties, for additional regulations regarding scholarships and bursaries.

Eligibility: To be eligible for entrance awards, you must be a Canadian citizen or permanent resident entering the 1st semester of post-secondary studies for the first time. To be eligible for in-course awards, you must be registered in an academic term and have completed a minimum of two semesters of study at the University of Guelph. In-course awards are available to all currently registered students, unless otherwise stated in the eligibility clause of a specific award. A minimum of 70% average is required for all scholarships. International Students: Financial Assistance Programs are available for International Students, including Entrance Awards, Work-Study and In-course Bursaries. In addition, many of the University of Guelph's scholarships for upper-year students are available to enrolled international students and are based on high academic standing. Where applications are required, it is the student's responsibility to obtain an application from Student Financial Services and to see that it is returned prior to the deadline date.

Award: Generic term used to refer to any type of award. These include scholarships, bursaries, travel grants and ACCESS awards.

ACCESS Awards: The University established an endowment fund through generous donor contributions and has been matched by the provincial government's Ontario Student Opportunity Trust Fund (OSOTF) program and the Ontario Trust for Student Support (OTSS). The income generated from these endowments will be used to support financial aid programs. The awards created will be used to assist Canadian citizens or permanent residents who meet the Ontario residency requirements as mandated by the OSOTF/OTSS program. Students must complete a Financial Need Assessment Form in order to be considered. Please contact the Awards Office, Student Financial Services for further details.

Ontario Government Mandated Terms for an OSOTF/OTSS Award:

i) be a Canadian citizen or permanent resident;

ii) be a Ontario resident as defined by a) have lived in Ontario for a period of at least 12 consecutive months up to the beginning of full-time post-secondary study; or b) the student's spouse has lived in Ontario for at least 12 consecutive months up to the beginning of the current year full-time post-secondary study period; or c) the student's parent(s)/stepparent(s)/legal guardian/official sponsor has lived in Ontario for at least 12 consecutive months up to the beginning of the current year full-time post-secondary study period;

iii) financial need as determined by the University of Guelph's Financial Need Assessment procedures.

Bursary: An award provided to a student on the basis of financial need only. Financial need is determined by the University of Guelph's Bursary Committee after an evaluation of the Financial Need Assessment Form has been submitted by the student. Academic merit is not a consideration in awarding a bursary. You must be a Canadian citizen or permanent resident of Canada to be considered for bursaries. International students are eligible to apply for the International Student Bursary only.

Scholarship: An award provided on the basis of academic performance and given for further study. Given that the merit component is normally academic, it may include such non-academic aspects as leadership, extracurricular activity, volunteerism, and community involvement. Scholarships can be monetary, prizes, or medals. Financial need is not a consideration of scholarships.

Scholarships with Financial Need: An award provided on the same criteria as scholarships, but financial need is a consideration.

Travel Grants: These grants are provided to students who wish to travel as part of their program of study. Examples of travel opportunities include: Exchange/Study Abroad programs, letter of permissions, field courses, and independent research projects that are related to a student's program of study.

Payment of Awards for In-course Students: Please note that Student Financial Services will apply all internal awards against outstanding balances on students' accounts.

Payment of Awards for Entrance Students: Awards will be applied directly to the student's financial account in two equal payments in the fall and winter semesters. Students who receive an award and who withdraw from the semester in which the award is received, or change the number of credits in which they are registered, may have their award adjusted. This adjustment will be calculated up to the twentieth class day according to the rebate schedule in effect for that semester and the published terms and conditions for the award.

Notice of Disclosure: It is understood that merit award winners' names will be released to donors and may be published as a condition of the award.

The University reserves the right to amend awards subject to the availability of funds.
Bachelor of Applied Science

Please refer to the General Statement on Awards for:
- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

Entrance Scholarships

1961-1964 Redmen Football Scholarships [E0770]

Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.
Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [E0769]

Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

Al Singleton Hockey Scholarships [E0687]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [E0663]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Allen Keele
Qualification(s): Entering student-athlete who is a member of the Varsity track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

Angelo and Frank Agro Undergraduate Scholarship [E0520]

These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership role(s) in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

Donor(s): The Frank Agro Estate
Qualification(s): Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4H projects.
Amount: 8 awards of $7,000 (payable over 4 years of study)

Barry Lee Scholarship for Agricultural Excellence [E0797]

Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

Donor(s): The Regional Municipality of Halton
Qualification(s): Students entering any undergraduate program offered by OAC.
Amount: 1 award of $1,000

Board of Governors’ Scholarships [E0317]

The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

Donor(s): Board of Governors
Qualification(s): Academically outstanding students entering semester 1 with the highest admission averages of the entering cohort.
Amount: 25 award of $8,000 (payable over 4 years of study)

Bob & Joyce Brooks Football Scholarships [E0691]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Mrs. Joyce Brooks
Qualification(s): Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Clara E. Elliott Education Scholarship [E0210]

Provided by the estate of Clara E. Elliott, MAC ’07. Students accepted into the BASc. program will be invited to submit an application. References from teachers should be included. To maintain the award for the second year of study, the recipients must have at least a 77% average and continue to demonstrate the qualities on which the award was given. To maintain the scholarship into the 3rd and 4th years, the recipient must have at least an 80% average in the prior year and continue to demonstrate the qualities on which the award was given. The recipients will be selected on the basis of academic achievement and evidence of participation in leadership roles, especially teaching and education. Preference will be given to students planning a teaching career in areas related to family studies including nutrition education and early childhood education.

Donor(s): Clara E. Elliott Estate
Qualification(s): Students entering the BASc. program with at least an 80% admission average who plan to pursue a career in teaching or education at any level.
Amount: 1 award of $10,000 (payable over 4 years of study)

Clara E. Elliott Entrance Scholarship [E0095]

Provided by the estate of Clara E. Elliott, MAC ’07. Students accepted into the BASc. program will be invited to submit an application. References from teachers should be included in the application. This scholarship is payable in 4 annual installments of $2,500. To maintain the award for the second year of study, the recipients must have at least a 77% average and continue to demonstrate the qualities on which the award was given. To maintain the scholarship into the 3rd and 4th years, the recipient must have at least an 80% average in the prior year and continue to demonstrate the qualities on which the award was given. The recipients will be selected on the basis of academic achievement and evidence of participation in leadership roles.

Donor(s): Clara E. Elliott Estate
Qualification(s): Students entering the BASc. program with at least an 80% admission average and who have demonstrated leadership potential.
Amount: 1 award of $10,000 (payable over 4 years of study)

Coach Rudy Florio Football Scholarship [E0737]

Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. Rudy Florio
Qualification(s): Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500
Dr. Jack Britney Scholarship [E0034]
Established in memory of Dr. Jack Britney, a graduate of '57A and O.A.C. '60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to Graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.
Donor(s): 
Friends and Associates
Qualification(s): 
Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph.
Amount: 
1 award of $1,000

Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]
Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.
Donor(s): 
Various Donors
Qualification(s): 
Entering student-athlete who is a member of the Varsity Cross / Country or Track and Field Team and who has achieved a minimum 80% admission average.
Amount: 
1 award of $1,350

Elaine Scott-Thomas Track and Field Scholarship [E0706]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.
Donor(s): 
Dave Scott-Thomas CBS BSc ’88
Qualification(s): 
Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.
Amount: 
1 award of $1,500

Embry Family Scholarship [E0736]
Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.
Donor(s): 
Mr. John Embry
Qualification(s): 
Entering student-athlete who is a member of a varsity team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 
1 award of $3,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [E0627]
Established by Ernest Kendall, O.A.C. B.S.A. 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): 
Ernest Kendall
Qualification(s): 
Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.
Amount: 
2 awards of $1,350

Ernie Kendall Science Entrance Scholarship [E0668]
Established by Ernest Kendall, O.A.C. B.S.A. 1932 and awarded to the student entering a science program with the highest admission average. Preference will be given to students that graduated from Elmira District School. This award is not tenable with the President's Scholarships, the Lincoln Alexander Scholarships or the Board of Governors Scholarships. Application is not required.
Donor(s): 
Ernest W. Kendall
Qualification(s): 
Students entering any sciences (B.Sc., B.Sc.(Agr.), B.Sc.(Env.), B.Sc.(Tech), B.A.Sc., B.A.S., B.B.R.M., B.Eng.) degree program with a minimum 80.0% admission average.
Amount: 
1 award of $2,000

Football Endowment Fund (FEF) Scholarship [E0644]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): 
Various University of Guelph donors
Qualification(s): 
Entering student-athlete who is a member of the Men's football team and who has achieved a minimum 80% admission average.
Amount: 
various awards of $750 to $3,500

George A. Gray O.A.C. '51 Varsity Scholarships [E0487]
Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.
Donor(s): 
Mrs. George A. Gray
Qualification(s): 
Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
Amount: 
2 awards of $1,250

George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): 
George Ames
Qualification(s): 
Entering student-athlete who is a member of the Varsity Cross Country team and who has achieved a minimum 80% admission average.
Amount: 
1 award of $3,500

Gerd and Christel Baldauf Men's Basketball Scholarship [E0639]
Established by Christian Baldauf, BSc, ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): 
Dr. Christian Baldauf
Qualification(s): 
Student-athlete entering the BSc program who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.
Amount: 
1 award of $3,500

Gordon W. Innes Scholarship [E0140]
Application is not required.
Donor(s): 
Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.
Qualification(s): 
Student entering any degree program from Oxford County with the highest admission average.
Amount: 
1 award of $1,400

Gryphon Athletic Scholarships [E0631]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): 
University of Guelph
Qualification(s): 
Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
Amount: 
various awards of $750 to $3,500

Hardy International Student Scholarship [E0659]
Selection is based on the assessment of the student's admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required.
Donor(s): 
Mrs. Marion Hardy
Qualification(s): 
Full-time international students (defined as paying the international student tuition and fees) entering any degree program.
Amount: 
1 award of $3,000

International Student Entrance Scholarships [E0408]
In support of the University's strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1. Selection will be based on admission consideration. These scholarships are awarded on a competitive basis. Application is not required.
Donor(s): 
University of Guelph
Qualification(s): 
Students on a "student visa" entering an undergraduate degree program at the University of Guelph with a record of high academic achievement and extracurricular involvement, and studying full-time. This award is offered for the first year of study.
Amount: 
Several awards ranging in value from $500 - $6,000

J.D. MacLachlan Scholarship [E0170]
Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.
Donor(s): 
The J.D. MacLachlan Trust
Qualification(s): 
Students entering any degree program at the University of Guelph.
Amount: 
1 award of $1,500
Jack and Lillian MacDonald Scholarship [E0379]
Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald,
Vice-President, Academic, of the University of Guelph from 1986 to 1995, have
established a scholarship that recognizes their commitment to increasing the accessibility
of post-secondary education to aboriginal persons. In the first instance, the award will be
given to an entering student coming from the Six Nations Polytechnic (SNP) and who
has received the highest cumulative average in the Native University Program. If there
is no entering student in any one year, the scholarship will be awarded to the in-course
student who is a graduate of the SNP (or previously, the Grand River Polytechnical
Institute) who has the highest cumulative average at the University.

Donor(s): Family, friends, and colleagues of Lillian MacDonald and Dr. Jack
MacDonald
Qualification(s): Entering students coming from the Six Nations Polytechnic (SNP).
Amount: 1 award of $900

Janet Wardlaw Scholarship [E0612]
Established in 1960, formerly known as the Mac-FACS-FRAN Alumni Entrance
Scholarship - FRAN (E0522) and re-named in 2006 to honour Dr. Janet Wardlaw, the
first Dean of FACS (1964-1984), Associate Vice President, Academic (1984-87), Fellow
of the University of Guelph and Honourary President of the Mac-FACS-FRANS
Association. Selection will be based on the highest admission average. This award is not
tenable with the President's Scholarship, the Lincoln Alexander Chancellor's
Scholarship or the Devine Family Scholarship. Application is not required.

Donor(s): Mac-FACS-FRAN Alumni Association
Qualification(s): Students entering the BASc. program in the Department of Family
Relations and Applied Nutrition.
Amount: 1 award of $1,000

Kelly Bertrand Cross Country Scholarship [E0684]
The recipient will be selected based on demonstrated leadership abilities, including
commitment, dedication, perseverance and contributions to the team. Preference is given
to current members of the Varsity Cross Country Team. Head Coach will nominate
students to the Athletic Awards Committee. No application is necessary.

Donor(s): Kelly Bertrand
Qualification(s): Entering student-athletes who are members of the Varsity Cross
Country Team and who have achieved a minimum 80% admission average.
Amount: 1 award of $2,000

L.A. Beattie & J.C. Beattie Memorial Scholarship [E0026]
Established in memory of Lillie Ann Beattie and Jeannie Cockburn Beattie. Application is not required.

Donor(s): The estate of Jessie L. Beattie
Qualification(s): Students entering the BASc program.
Amount: 1 award of $300

Larry Pearson Men’s Volleyball Athletic Scholarships [E0618]
Established by Larry Pearson, a former varsity volleyball athlete and University of
Guelph graduate, this scholarship recognizes students who are members of the men's
volleyball volleyball team and excel both academically and in a rigorous athletic
environment. The recipient will exhibit strong academics and extraordinary athletic
qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Larry Pearson
Qualification(s): Entering student-athlete who is a member of the men's varsity
volleyball team and who has achieved a minimum 80% admission average.
Amount: several awards up to $3,500

Latifpour-Keparoutis Family Varsity SwimTeam Scholarship [E0732]
Selection will be based on demonstrated leadership qualities and contributions to the
team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will
nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Maryam Latifpour-Keparoutis
Qualification(s): Entering student-athlete who is a member of the varsity swim team
and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,200

Lincoln Alexander Scholarships [E0689]
Established in 2001 in honour of Lincoln Alexander, Chancellor Emeritus of the
University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday.
They are intended to enhance student diversity and are one of the most prestigious
entrance awards at the University of Guelph. Selection will be made on demonstrated
superior leadership ability and potential as evidenced through positions held,
extra-curricular activities, involvements in high school and communities and reference
support. Students apply by January 25 by completing the online application. Short-listed
candidates will be invited to campus for an interview. This award cannot be held with
the President’s Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board
of Governors’ Scholarships.

Donor(s): Many Donors
Qualification(s): Students entering a degree program with a minimum 90% admission
average who have made significant leadership contributions to their schools and communities. In addition, students must be: Aboriginal;
or a person with a disability; or a member of a racial minority.
Amount: 2 awards of $32,000 ($6,500 annually for 4 years of study plus one
$6,000 stipend for summer research assistance)

Lloyd Dorr Memorial Hockey Scholarship [E0708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education
and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will
nominate students to the Athletics Awards Committee. No application is necessary.

Donor(s): Family and Friends of the late Lloyd Dorr
Qualification(s): Entering student-athlete who is a member of the men’s varsity hockey
team and registered in an undergraduate program and who has achieved
a minimum 80% admission average.
Amount: 1 award of $1,000

McArthur-Humphries Scholarship [E0183]
An equal number of awards are available to students from each county. In the case of
insufficient eligible applicants from one county, the awards will be given to eligible
applicants from the other county. These scholarships are awarded to students with the
highest admission averages. Application is not required.

Donor(s): Anonymous (Alumni)
Qualification(s): Entering student-athlete who is a member of the varsity Men's
Basketball team and who has achieved a minimum 80% admission average.
Amount: 4 awards of $2,500

Men’s Basketball Scholarships [E0638]
Recipients will be selected based on extraordinary athletic and leadership qualities.
Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Anonymous (Alumni)
Qualification(s): Entering student-athlete who is a member of the varsity Men's
Basketball team and who has achieved a minimum 80% admission average.
Amount: 4 awards of $2,500

Men’s Soccer Alumni Scholarship [E0771]
Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities.
No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon men’s soccer
team with a minimum 80% admission average.
Amount: several awards ranging in value from $1,000 to $3,500

Moulton-Hutchinson Family Track and Field Scholarship [E0705]
The recipient will be selected based on demonstrated leadership qualities and contributions
to the team. Head Coach will nominate students to the Athletic Awards Committee. No
application is necessary.

Donor(s): The Moulton and Hutchinson Families
Qualification(s): Entering student-athlete who is a member of the varsity cross-country
or track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500
Established in 2009 in honour of Pamela Wallin, Chancellor of the University of Guelph and considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.

**Pamela Wallin Chancellor’s Scholarships [E0688]**

| Donor(s): | University of Guelph |
| Amount: | $6,000 stipend for summer research assistantship |

### President’s & Chancellor’s Finalists Scholarship [E0651]

Established in recognition of demonstrated academic excellence, leadership ability and participation in the President's and Chancellor's Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President's or Chancellor's Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.

**President's & Chancellor’s Finalists Scholarship [E0651]**

| Donor(s): | Provost, and Vice-President Academic of the University of Guelph |
| Qualification(s): | Students entering any degree program who have been interviewed for consideration for a President's or Chancellor's Scholarship. |
| Amount: | several awards of $500 |

### Professor Victor Matthews Track and Field Scholarships [E0707]

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Professor Victor Matthews Track and Field Scholarships [E0707]**

| Donor(s): | Various Donors |
| Qualification(s): | Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average. |
| Amount: | up to 10 3500 each |

### Rachel Cliff Scholarship [E0790]

The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Rachel Cliff Scholarship [E0790]**

| Donor(s): | Mr. Ronald & Nancy Cliff |
| Qualification(s): | Entering student-athlete who is a member of the Women’s Middle Distance Team and a distance runner who has achieved a minimum 80% admission average. |
| Amount: | 1 award of $1,500 |
Sprung Family Men’s Basketball Scholarship [E0672]
Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. Timothy Sprung
Qualification(s): Entering student-athlete who is a member of the Men’s basketball team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Ted Morwick Scholarship [E0796]
Established by Alumnus Ted Morwick, BA ’70. The student with the highest admission average will be selected. This award is conditional on maintaining a 80% average in the previous year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify. (i.e. The student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year.) If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opportunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary.

Donor(s): Mr. Edward (Ted) Morwick
Qualification(s): Students entering any degree program in the College of Arts.
Amount: 1 award of $8,000 (payable over four years.)

Tom Mooney Scholarship [E0709]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the varsity men’s football team or men’s basketball team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $1,000 to $3,500

University of Guelph Entrance Scholarships [E0291]
The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student's financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive this award. Application is not required.

Donor(s): University of Guelph
Qualification(s): All students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average.
Amount: Several awards of $2,000, Several awards of $3,000

University of Guelph Faculty Association Scholarship [E0292]
Award is payable at $750 per annum in the student’s 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required.

Donor(s): University of Guelph Faculty Association
Qualification(s): Students entering any undergraduate degree program at the University of Guelph from Wellington county.
Amount: 1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)

W. Penri Morris Memorial Scholarship [E0430]
Established by the family in memory of Penri Morris, who was killed World War II action in 1944 at the age of 21. Penri grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required.

Donor(s): Prof. Rosalina Morris
Qualification(s): Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.
Amount: 1 award of $1,000

Walter and Halina Slabikowski Scholarship [E0766]
This scholarship was established in memory of Walter and Halina Slabikowski who sent their first generation Canadian born children to university to enrich their lives and provide them with greater opportunities. The award will be given to the student with the highest admission average. The residence deposit must be received by published deadline date. Submit by email to awards@registrar.uoguelph.ca your full name, student ID number and a statement attesting to your parents’ place of birth and non participation in post secondary education by April 15th.

Donor(s): Irene Thompson and Slabikowski Family
Qualification(s): Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.
Amount: 1 award of $1,000

Waterloo-Wellington Science & Engineering Fair (WWSEF) Scholarship [E0619]
Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.

Donor(s): University of Guelph
Qualification(s): Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.
Amount: various awards of $1,000

William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships [E0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mrs. Irene McEwen
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [E0634]
Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. William P. Weber
Qualification(s): Entering student-athlete who is a member of the Men’s Football team and achieved a minimum 80% admission average.
Amount: 1 award of $2,500

Entrance Scholarships with Financial Need

Bill Klopp Memorial Scholarship [E0150]
Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and completing the online Financial Need Assessment Form (E.N.A.F) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

Donor(s): Ross and Mary Lou Klopp
Qualification(s): Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.
Amount: 1 award of $500
Devine Family Scholarships [E4542]

On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government's OTSS program, established these two awards for the purpose of diversifying the ethnicity of the student body of the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out once every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the "Devine Family Scholarship Application". Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards, ACCESS AWARD.

Donor(s): Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability, or who are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 2 awards of $30,000 (payable over 4 years of study)

Interhall Council Entrance Scholarship [E0636]

Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.

Donor(s): Interhall Council

Qualification(s): Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability.

Amount: 3 awards of $1,250

John Embry Family Scholarship [E4549]

Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program

Qualification(s): Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 2 awards of $3,500

Kenneth O. Hammill-Blount Canada Scholarship [E4356]

Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government's OSOTF program. Selection will be based on greatest financial need from the President's, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who submitted an application for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) by April 15. ACCESS AWARD.

Donor(s): The Blount Foundation, Inc. with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Entering students who have applied for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships who are interviewed, but not successful in the competition with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $9,600 (payable in 8 payments of $1,200)

Landoni Athletic Scholarship [E4405]

Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Student must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program

Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,000

Norman L. Gibbins Microbiology Scholarship [E4392]

Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government’s OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): Family, friends and colleagues of Norman Gibbins with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students entering the Microbiology major in the B.Sc. program with a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $1,000

P.A.J. Clarke Family Scholarship [E3381]

Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.). This award is not tenable with the President’s Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

Donor(s): Paul and Aileen Clarke

Qualification(s): Students with a minimum 80% average with a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm.

Amount: 1 award of $12,000 (payable over 4 years)
### Rol-Land Farms Scholarships [E4519]

Established by Rol-Land Farms, with the assistance of the Ontario government's OSOTF program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

**Donor(s):** Rol-Land Farms with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students entering a degree program with demonstrated financial need and a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 13 awards of $2,000

### Spitzig Entrance Scholarship in Economics [E4543]

A graduate (1986) of the B.A. Economics program has established these scholarships with the assistance of the Ontario government’s OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

**Donor(s):** Anonymous with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $4,500

### W. F. Mitchell Athletic Scholarship [E4550]

Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

**Donor(s):** The Mitchell Family with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

### Entrance Bursaries

### Elizabeth Maud Hunter (Shier) Bursary [E3575]

This award was created to assist first-year students in obtaining a post-secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards. ACCESS AWARD

**Donor(s):** The Estate of the Late William Henry “Harry” Hunter with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students entering any degree program at the University of Guelph. Students entering any degree program with demonstrated financial need. Preference will be given to a student from the County of Brock. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students who meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 3 awards of up to $4,500

### First Year Student Residence Bursary [E3066]

These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15.

**Donor(s):** Student Housing Services

**Qualification(s):** Students entering any degree program with demonstrated financial need.

**Amount:** 5 awards of $500

### Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. ’39), Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15.

**Donor(s):** Harvey Graham, O.A.C. ’39

**Qualification(s):** Student who has demonstrated financial need with preference given to a student who comes from a working farm. Students graduating from Lindsay C. V. L. Fenelon Falls Secondary School, or I. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student’s home township.

**Amount:** 1 award of $1,200

### International Student Entrance Bursaries [E3043]

In support of the University’s strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar’s Entrance Award Application to Student Financial Services.

**Donor(s):** University of Guelph

**Qualification(s):** Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.

**Amount:** Several awards ranging in value from $1,000 to $3,000

### Registrar’s Entrance Bursaries [E3034]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made by May. This award is not tenable with the University of Guelph Accessibility Bursary, but can be held with all other entrance awards.

**Donor(s):** University of Guelph

**Qualification(s):** Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.

**Amount:** 500 awards of $2,000

### Robert Arthur Stewart Bursaries [E3272]

Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and have been students entering an undergraduate degree program at the University of Guelph. Apply by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

**Donor(s):** The Estate of Mrs. H. Stewart

**Qualification(s):** Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.

**Amount:** 12 awards of $500

### Tamnie Nevills Memorial Bursary [E3541]

The family and friends of the late Tamnie Nevills (FACS ’81), a former teacher at Bluevale Collegiate Institute in Waterloo, ON, with the assistance of the Ontario government’s OSOTF program have provided this award to a student entering a major in the Department of Family Relations and Applied Nutrition. Apply by completing the online Financial Need Assessment Form (N.A.F.) Students should complete the Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

**Donor(s):** The family and friends of Tamnie Nevills (FACS’81) with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Student who is entering a major in the Department of Family Relations and Applied Nutrition that has demonstrated financial need. Preference will be given to a graduate of Bluevale Collegiate Institute in Waterloo, ON, to Watertoo Collegiate Institute. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $1,000

Last Revision: Oct, 19, 2012
University of Guelph Accessibility Bursaries [E3038]
Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Bursary, but can be held with all other Entrance Awards.
Donor(s): University of Guelph
Qualification(s): Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.
Amount: 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

In-course Scholarships
1961-1964 Redmen Football Scholarships [I0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.
Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men's Cross Country and Track and Field Legacy Scholarship [I0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.
Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men's Cross Country team)
Qualification(s): Current member of the Gryphon Men’s Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

A.M. Bell Prize [C0028]
Provided by the estate of the late Adna M. Bell, a 1905 Macdonald Institute graduate, to the student with the highest grade in the course. Application is not required.
Donor(s): The Estate of Adna M. Bell
Qualification(s): Students registered in the Applied Human Nutrition major who have completed NUTR*4900 Selected Topics in Human Nutrition. 
Amount: 1 award of $250

Adelaide Hoodless Memorial Scholarships [I0137]
Established by these estates in memory of their mother, Adelaide Hoodless, to reward students with the highest cumulative averages. One award each year will be awarded to a student completing between 5.25 and 10.0 credits, one to a student completing between 10.25 and 15.0 credits, and one to a student who has already completed at least 15.0 credits. This scholarship can only be held once. Application is not required.
Donor(s): The Estates of Joseph Bernard Hoodless and Muriel I. Bostwick
Qualification(s): Students registered in the BASc. program who have completed at least 5.0 credits.
Amount: 3 awards of $4,000

Agincourt Milk Producers' Association Scholarship [I0003]
Preference will be given to students from York County or the Region of Durham, Apply, by May 15, to the Department of Family Relations and Applied Nutrition Awards Committee with a letter describing farming background. Presented in the Fall semester.
Donor(s): Agincourt Milk Producers
Qualification(s): Students registered in the BASc. program who have completed between 4.0 and 17.5 credits and live on a farm in Ontario.
Amount: 1 award of $1,000

AI Singleton Hockey Scholarships [I0687]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. No application is necessary.
Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [I0663]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): Allen Keele
Qualification(s): In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $1,350

Alun Joseph Tribute Scholarship [I0756]
Selection will be based on significant prior contributions to and experience in community-based service and future participation in curriculum-embedded experiential learning opportunities in the following academic year.
Donor(s): Dr. Alun Joseph Dean of the College of Social and Applied Human Sciences from 2000-2010 & Mrs. Gillian Joseph (CSS BA ’94, FACS MSc ’96) along with contributing donors to the Alun Joseph Tribute Fund
Qualification(s): Full-time students registered in any program offered by the College of Social and Applied Human Sciences with a minimum 75% cumulative average who are participating in curriculum-embedded community-based experiential learning in the following academic year.
Amount: 1 award of $1,000

Ann E. Barber Memorial Scholarship [I0023]
Established in 1963 in memory of Ann E. Barber, former superintendent of Macdonald Hall from 1931 to 1942 and Dean of Women from 1946 until her retirement in 1956, by the Mac-FACS Alumni Association. Apply to the FRAN Undergraduate Awards Committee by May 15th with a summary letter outlining prior contributions to and experience in community-based service, and how funds would be used to support participation in curriculum-embedded experiential learning opportunities in the following academic year.
Donor(s): Mac-FACS Alumni Association
Qualification(s): Full-time student registered in a program offered by the Department of Family Relations and Applied Nutrition who have completed between 10.5 and 15.0 credits and achieved a minimum cumulative average of 70%.
Amount: 1 award of $1,000

Anne Callagan Memorial Scholarship [I0038]
The alumni, faculty and staff of the former College of Family and Consumer Studies established a scholarship in memory of Professor Anne Callagan. Awarded to the student who achieves the highest cumulative average. Application is not required.
Donor(s): The alumni, faculty and staff of the College of Social and Applied Human Sciences
Qualification(s): Co-op students in the BASc. program who have completed 9.5 credits.
Amount: 1 award of $350

Bill Taylor Memorial Scholarship [I0280]
Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.
Donor(s): AMF Canada Ltd.
Qualification(s): Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or intercollegiate athletics.
Amount: 1 award of $900
### IX. Scholarships and Other Awards, Bachelor of Applied Science

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bob &amp; Joyce Brooks Football Scholarships [I0691]</strong></td>
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<tr>
<td>The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not necessary.</td>
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<tr>
<td><strong>Donor(s):</strong> Mrs. Joyce Brooks</td>
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<tr>
<td><strong>Qualification(s):</strong> Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.</td>
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<tr>
<td><strong>Amount:</strong> Numerous awards ranging in value from $750 to $3,500</td>
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<tr>
<td><strong>CFRU Volunteer Award [I0215]</strong></td>
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<tr>
<td>Apply to the CFRU Board of Governors by April 30.</td>
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<tr>
<td><strong>Donor(s):</strong> Station Manager, CFRU</td>
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<tr>
<td><strong>Qualification(s):</strong> Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU.</td>
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<td><strong>Amount:</strong> 2 awards of $250</td>
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<tr>
<td><strong>Class of 1970 Scholarship [I0424]</strong></td>
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<td>Established by the Silver Anniversary celebrants to commemorate the 25th anniversary of the University Class of 1970. This award rotates among all six colleges on the main campus. The appropriate College Award Committee selects the candidate each Fall semester and the candidate is announced each October. Application is not required.</td>
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<tr>
<td><strong>Donor(s):</strong> Class 1970: 25th Reunion Gift</td>
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<td><strong>Qualification(s):</strong> Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’ Honours List.</td>
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<td><strong>Amount:</strong> 1 award of $900</td>
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<tr>
<td><strong>Class of Mac ’30 Scholarship [I0674]</strong></td>
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<td>Awarded to the student with the highest cumulative average. A student may receive this scholarship once only. Application is not required.</td>
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<td><strong>Donor(s):</strong> Class of Mac ’30</td>
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<td><strong>Qualification(s):</strong> Students registered in the BASc. program who have completed between 10.0 and 12.5 credits.</td>
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<td><strong>Amount:</strong> 1 award of $500</td>
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<tr>
<td><strong>Class of Mac ’65 Scholarship [I0579]</strong></td>
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<td>The recipient will be selected on the basis of academic achievement and leadership ability as demonstrated through extracurricular involvement and/or volunteerism. Apply by letter to the Department of Family Relations and Applied Nutrition Undergraduate Awards Committee by May 15, including the Department Application Form and a comprehensive listing of extracurricular involvement and leadership roles.</td>
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<tr>
<td><strong>Donor(s):</strong> Class of Mac ’65</td>
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<tr>
<td><strong>Qualification(s):</strong> Canadian citizens or permanent residents who are majoring in Applied Human Nutrition or Gerontology or Adult Development, Families and Well-Being in the BASc. program and have completed a minimum of 12.5 course credits with a minimum 77% cumulative average.</td>
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<tr>
<td><strong>Amount:</strong> 1 award of $800</td>
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<tr>
<td><strong>Coach Rudy Florio Football Scholarship [I0737]</strong></td>
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<td>Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.</td>
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<tr>
<td><strong>Donor(s):</strong> Mr. Rudy Florio</td>
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<td><strong>Qualification(s):</strong> Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.</td>
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<td><strong>Amount:</strong> 1 award of $3,500</td>
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<tr>
<td><strong>Collins Barrow Award [I0040]</strong></td>
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<td>Offered by Collins Barrow, a national firm of Chartered Accountants. Application is not required.</td>
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<tr>
<td><strong>Donor(s):</strong> Collins Barrow Chartered Accountants</td>
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<tr>
<td><strong>Qualification(s):</strong> Student with the highest grade in course ACCT*3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship will be given to the student with the highest cumulative average in their program.</td>
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<td><strong>Amount:</strong> 1 award of $500</td>
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<tr>
<td><strong>CSAHS Student Volunteer Scholarship [I0482]</strong></td>
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<tr>
<td>Inspired by Theresa Firestone, FACS ’78, and funded by the Harshman Fellowships Society and Pfizer Canada Inc.</td>
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<tr>
<td>Students may apply on their own or be recommended by other students, faculty members or administrators from non-profit organizations. Apply to the CSAHS Dean's Office with two letters of recommendation, at least one of which should be from an individual who can speak to his/her volunteerism and a summary letter outlining the student's volunteer experience and what has been gained or learned from this experience that has enhanced his/her personal growth and/or career goals by May 15.</td>
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<tr>
<td><strong>Donor(s):</strong> Harshman Fellowship Society and Pfizer Canada Inc.</td>
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<td><strong>Qualification(s):</strong> Full-time undergraduate students in any degree program offered by the College of Social and Applied Human Sciences and have completed at least 15 course credits with a minimum cumulative 70% average.</td>
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<tr>
<td><strong>Amount:</strong> 1 award of $450 plus an equal amount to the charitable organization of the recipient’s choice</td>
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<tr>
<td><strong>David F. Boyes Apiculture Scholarship [I0031]</strong></td>
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<td>Established in memory of David Boyes, a technician in the Apiculture Field Laboratory. Application is not required.</td>
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<td><strong>Donor(s):</strong> The Apiculture Club</td>
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<td><strong>Qualification(s):</strong> Student registered in the Fall semester who achieves high academic standing in Introductory Apiculture ( ENVB*2210 ) in the previous year, demonstrates an interest in apiculture and who has participated in extracurricular activities.</td>
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<tr>
<td><strong>Amount:</strong> 1 award of $150</td>
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<tr>
<td><strong>Deans’ Scholarships [I0323]</strong></td>
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<tr>
<td>This award was established by the Board of Governors in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.</td>
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<tr>
<td><strong>Donor(s):</strong> Board of Governors</td>
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<tr>
<td><strong>Qualification(s):</strong> Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.</td>
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<tr>
<td><strong>Amount:</strong> 150 awards of $1,000</td>
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<tr>
<td><strong>Dorothy Britton Memorial Scholarship [I0015]</strong></td>
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<tr>
<td>Scholarships are awarded from funds donated from the estate of Dorothy Britton (MAC ’39). Awarded on the basis of high academic achievement. Application is not required.</td>
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<tr>
<td><strong>Donor(s):</strong> The Estate of Dorothy Britton</td>
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<tr>
<td><strong>Qualification(s):</strong> Students who have completed at least 10.0 credits in the BASc. program with a minimum cumulative average of at least 80% in the last two years of study.</td>
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<tr>
<td><strong>Amount:</strong> 7 awards of $3,000</td>
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<tr>
<td><strong>Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [I0695]</strong></td>
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<tr>
<td>Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.</td>
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<tr>
<td><strong>Donor(s):</strong> Various Donors</td>
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</tr>
<tr>
<td><strong>Qualification(s):</strong> Current member of the Varsity Cross/Country or Track and Field Team, who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete</td>
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<tr>
<td><strong>Amount:</strong> 1 award of $1,350</td>
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<tr>
<td><strong>Elaine Scott-Thomas Track and Field Scholarship [I0706]</strong></td>
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<tr>
<td>The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletics Awards Committee. No application is necessary.</td>
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<tr>
<td><strong>Donor(s):</strong> Dave Scott-Thomas CBS BSc ’88</td>
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</tr>
<tr>
<td><strong>Qualification(s):</strong> Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete</td>
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<tr>
<td><strong>Amount:</strong> 1 award of $1,500</td>
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<tr>
<td>Scholarship Name</td>
<td>Amount</td>
<td>Qualification(s)</td>
<td>Donor(s)</td>
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</tr>
<tr>
<td><strong>Elizabeth Landels Casselman Scholarship</strong> [I0050]</td>
<td>1 award of $1,250</td>
<td>Students registered in the BASc program who have completed at least 10.0 credits, but not more than 12.5, with a minimum 80% cumulative average.</td>
<td>Elizabeth Landels Casselman Estate</td>
</tr>
<tr>
<td><strong>Embry Family Scholarship</strong> [I0736]</td>
<td>2 awards of $1,350</td>
<td>In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.</td>
<td>John Embry</td>
</tr>
<tr>
<td><strong>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship</strong> [I0627]</td>
<td>1 award of $3,500</td>
<td>In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Ernest Kendall</td>
</tr>
<tr>
<td><strong>Ethel M. Christie Scholarship</strong> [I0057]</td>
<td>1 award of $200</td>
<td>Students registered in the BASc program who have completed at least 14.5 credits including at least 1.0 in an English course.</td>
<td>Dr. George I. Christie &amp; Margaret C. Hearn</td>
</tr>
<tr>
<td><strong>Evelyn Matheson Pepper Memorial Scholarship</strong> [I0538]</td>
<td>1 award of $1,000</td>
<td>Student who achieves the highest grade in the course FRHD*3200, Practicum Child, offered by the department of FRAN.</td>
<td>Ms. Barbara Stuart and Ms. Susan Pepper</td>
</tr>
<tr>
<td><strong>Football Endowment Fund (FEF) Scholarship</strong> [I0644]</td>
<td>Various awards of $750 to $3,500</td>
<td>In-course student-athlete who is a current member of the Men's football team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Various University of Guelph donors</td>
</tr>
<tr>
<td><strong>Frances M. Stretton Scholarship</strong> [I0768]</td>
<td>1 award of $3,000</td>
<td>Students registered full-time in any program offered by the College of Social and Applied Human Sciences with a minimum of 75% cumulative average who are participating in curriculum-embedded experiential learning opportunities in the following academic year.</td>
<td>Mrs. Frances M. Stretton</td>
</tr>
<tr>
<td><strong>George A. Gray O.A.C. '51 Varsity Scholarships</strong> [I0487]</td>
<td>2 awards of $1,250</td>
<td>In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Mrs. George A. Gray</td>
</tr>
<tr>
<td><strong>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews</strong> [I0677]</td>
<td>1 award of $3,500</td>
<td>In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year.</td>
<td>George Ames</td>
</tr>
<tr>
<td><strong>Gerd and Christel Baldauf Men's Basketball Scholarship</strong> [I0639]</td>
<td>1 award of $1,000</td>
<td>Student who has volunteered in the CSD. The award will be made on the basis of the volunteer activities undertaken by the student at the CSD, one letter of reference, and a personal statement that outlines the time commitment and types of volunteer activities undertaken as well as an indication of how this was a valuable and rewarding volunteer experience.</td>
<td>Mr. Eugene Peterson</td>
</tr>
<tr>
<td><strong>Gertrude R. Peterson Memorial Scholarship</strong> [I0234]</td>
<td>1 award of $900</td>
<td>All students registered in the College of Social and Applied Human Sciences (CSAHS) that have completed between 10.0 and 15.0 course credits with a minimum 70% cumulative average, and have been involved as volunteers with the CSD.</td>
<td>Dr. John and Mrs. Katherine Gonder</td>
</tr>
<tr>
<td><strong>Governor General's Medal</strong> [C0044]</td>
<td>Various awards of $750 to $3,500</td>
<td>Students registered in the BASc program who have completed FRHD*3400, Communication and Counselling Skills.</td>
<td>Dr. John and Mrs. Katherine Gonder</td>
</tr>
<tr>
<td><strong>Gryphon Athletic Scholarships</strong> [I0631]</td>
<td>Various awards of $750 to $3,500</td>
<td>In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>University of Guelph</td>
</tr>
</tbody>
</table>

**Elizabeth Landels Casselman Estate**

Various awards of $750 to $3,500

**University of Guelph**

1 award of $3,500

**Ernest Kendall**

In-course student-athlete who is a current member of the varsity team and has achieved a minimum 70% average in the previous academic year.

**Mrs. Frances M. Stretton**

Students registered full-time in any program offered by the College of Social and Applied Human Sciences with a minimum of 75% cumulative average who are participating in curriculum-embedded community-based experiential learning in the following academic year.
IX. Scholarships and Other Awards, Bachelor of Applied Science

H.H. Harshman Foundation Scholarships [I0123]
The H.H. Harshman Foundation, long time supporters of the Department of Family Relations and Applied Nutrition, provides these scholarships. Apply by letter to the Chair of Family Relations and Applied Nutrition by May 15, demonstrating leadership.

Donor(s): The Harshman Foundation
Qualification(s): Full-time student in the BASc program who has completed between 4.0 and 15.0 course credits. One award will be granted to a student who has completed between 8.0 and 10.0 course credits, one to a student who has completed between 12.0 and 15.0 course credits and one to a student who has completed between 4.0 and 15.0 course credits.

Amount: 3 awards of $3,000

Helen G. West Memorial Scholarship [I0512]
Established by the family of Helen G. West, a Mac’30 graduate who was a member of the first University of Guelph Senate and a charter member of the Guelph Alumni Association. Apply by letter to the Chair of the Department of Family Relations and Applied Nutrition by May 15, including a comprehensive listing of leadership involvement in extracurricular activities.

Donor(s): Nancy Sawyer, Mary Helen Simpson, their families and Belle Shirlaw
Qualification(s): A student in any major of the BASc program who has completed between 15.0 and 17.5 course credits with a minimum B+ (77%) cumulative average, and who has participated in extracurricular activities at a leadership level.

Amount: 1 award of $1,800

International Undergraduate Scholarship [I0577]
Established through a student referendum approved by the undergraduate student body, to recognize international students’ academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University and academic and/or professional references. This award can only be held once by the student.

Donor(s): International Student Organization (ISO)
Qualification(s): Full-time International students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%.

Amount: 2 awards of $2,000

Jack and Lillian MacDonald Scholarship [E0379]
Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

Donor(s): Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald
Qualification(s): Entering students coming from the Six Nations Polytechnic (SNP).

Amount: 1 award of $900

Janet M. Wardlaw Medal [C0096]
Established in honour of the many contributions of Dr. Janet M. Wardlaw, a former Dean of the College of Family and Consumer Studies. Application is not required.

Donor(s): Faculty, staff, alumni and students, formerly FACS
Qualification(s): Presented to the Department of Family Relations and Applied Nutrition’s nominee for the Winegard Medal.

Amount: 1 award of a Medal

Jean C. Bradley Memorial Prize [C0032]
This prize was established by the 1929 class of Macdonald Institute in memory of Jean C. Bradley, instructor of foods and cookery at Macdonald Institute. Application is not required.

Donor(s): Mac-FACS-FRAN
Qualification(s): Students that graduated in the previous fall or winter or will be graduating in the summer with the highest cumulative average in the Applied Human Nutrition major of the BASc program.

Amount: 1 award of $300

Jean Carter Memorial Gerontology Scholarship [I0488]
Established by the family and friends of Jean Carter, a Mac’38 graduate who was actively involved in the life of the College and the University. Apply by May 15 to the Chair of the FRAN Awards Committee with a letter outlining volunteer experience working with the elderly, and any other extracurricular involvement. Include one letter of reference with the application demonstrating volunteer experience with the elderly. The recipient will be selected based on a commitment to the elderly as evidence through volunteer activity, involvement in extracurricular and academic achievement.

Donor(s): Mr. Robert N. Carter and Family
Qualification(s): Students registered full-time in any major within the BASc program who have completed at least 10.0 credits and have a minimum 70% cumulative average.

Amount: 1 award of $1,000

Joan (Ellerington) Tanner Memorial Prize [C0279]
Established in memory of Mrs. Joan (Ellerington) Tanner, a 1957 graduate of the Macdonald Institute to recognize the student with the highest academic standing in the final two years of study in the BASc program. Application is not required.

Donor(s): Professor J. Tanner and family
Qualification(s): Full-time students in the BASc program that is graduating in either the fall, winter or spring.

Amount: 1 award of $1,000

John Eccles Scholarship [I0093]
Apply to Student Financial Services, by May 15, with a letter highlighting leadership abilities through participation on residence life. Providing a reference letter would be an asset.

Donor(s): Student Housing Services
Qualification(s): Full-time student registered in semester 2, 3, 4, 5 or 6 and living in residence in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.

Amount: 1 award of $600

Katherine Fuller Scholarship [I0107]
Established in 1931 to honour Mrs. Katherine Fuller, the Superintendent of Macdonald Hall from 1904 until her retirement in 1931. Apply to the FRAN Undergraduate Awards Committee by May 15 with a one-page description of contributions to student activities. The award will be given to the student who has made the greatest contribution to student activities in residence or on campus.

Donor(s): Mac-FACS-FRAN Alumni Association
Qualification(s): Full-time students registered in a program offered by the Department of Family Relations and Applied Nutrition, who have completed between 5.0 and 10.0 credits with a minimum cumulative average of 70%.

Amount: 1 award of $1,000

Kelly Bertrand Cross Country Scholarship [I0684]
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Kelly Bertrand
Qualification(s): Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

Amount: 1 award of $2,000

Ken and Marilyn Murray Scholarship [I0734]
Dr. Kenneth G. Murray C.M., OAC BSA ’50 and Honorary Doctor of Laws ’96, and Mrs. Marilyn C. Murray, Mac BHSc ’55, established this scholarship. Selection will be based on significant prior contributions to and experience in community-based service. Apply to the CSHAIS Awards Committee by May 15th with a summary letter outlining prior contributions to and experience in community-based service, and how funds would be used to support participation in curriculum-embedded experiential learning opportunities in the following academic year.

Donor(s): Dr. Kenneth G. and Mrs. Marilyn C. Murray
Qualification(s): Full-time students registered in the College of Social and Applied Human Sciences with a minimum 75% cumulative average who are participating in curriculum-embedded community-based experiential learning in the province of Ontario in the following academic year will be eligible for this award.

Amount: 1 award of $2,000
Kenneth W. Hammond Prize [I0045]
The evaluation of the student will be based on the final essay in the "Environmental Perspectives and Human Choice: 5000 Days' course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

Donor(s): Kenneth W. Hammond
Qualification(s): Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.
Amount: 1 award of $1,000

Kevin Durie Memorial Scholarship [I0653]
Established in memory of Kevin Durie, BA '93, by his family and friends. Selection will be based on demonstration of outstanding service as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

Donor(s): Christine Blake-Durie
Qualification(s): Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.
Amount: 1 award of $1,000

Kip Hunter Prize [I0139]
For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

Donor(s): Faculty, students and staff of the Philosophy Department
Qualification(s): Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.
Amount: 1 Book prize

Lambda Foundation Scholarship in LBGT Studies [I0591]
This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a given student only once. Projects must have been completed or research proposals accepted within the past calendar year. Apply to the Dean of Arts by December 15th including the research proposal or completed project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.

Donor(s): Lambda Foundation and other donors
Qualification(s): Students enrolled in a program or course project or independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.
Amount: 1 award of $1,000

Larry Pearson Men’s Volleyball Athletic Scholarships [I0618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Larry Pearson
Qualification(s): In-course student-athlete who is a current member of the men’s varsity volleyball team and has achieved a minimum 70% average in the previous academic year.
Amount: several awards up to $3,500

Latifpoor-Keparoutitis Family Varsity Swim Team Scholarship [I0732]
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student-athlete. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Maryam Latifpoor-Keparoutitis
Qualification(s): Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,200

Leonard Conolly Exchange Student Scholarship [I0446]
Established by students, faculty, staff and friends to honour Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

Donor(s): Students, staff, faculty and friends of Dr. Leonard Conolly
Qualification(s): Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).
Amount: 1 award of $1,000

Lloyd Dorr Memorial Hockey Scholarship [I0708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Family and Friends of the late Lloyd Dorr
Qualification(s): Current member of the men’s varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,000

Mac ‘69 Memorial Scholarship [I0082]
Established in 1976, by the class of Mac ‘69, in memory of classmate Patricia Cosgrove. Preference will be given to students showing general proficiency in both curricular and extracurricular work. Apply to Department of Family Relations and Applied Nutrition Undergraduate Awards Committee by May 15, including the Department Application Form and CV with a comprehensive listing of extracurricular involvement and leadership roles.

Donor(s): Class of Mac ’69
Qualification(s): Students registered in the BASc. program who have completed 7.5 credits with a minimum 70% average and demonstrated participation in extracurricular activities and leadership roles.
Amount: 1 award of $600

Mac-FACS-FRAN Alumni Association Scholarship - Family Relations and Applied Nutrition [I0524]
Awarded to the student with the highest cumulative average. Application is not required.

Donor(s): Mac-FACS-FRAN Alumni Association
Qualification(s): Full-time student in the Department of Family Relations and Applied Nutrition who has completed between 5.0 and 10.0 credits with a minimum cumulative average of 80%.
Amount: 1 award of $1,000

Marie-Pier Lamoureux Memorial Scholarship [I0359]
Established by family and friends in memory of Marie-Pier Lamoureux-Jones, a 1988 graduate of the Applied Human Nutrition major in the BASc. program. Awarded to the student with the highest cumulative average. A student may only receive this scholarship once. Application is not required.

Donor(s): David Jones and friends
Qualification(s): Full-time students enrolled in the Applied Human Nutrition major in the BASc. program who have completed between 10.0 and 17.5 credits.
Amount: 1 award of $2,500
Men's Basketball Scholarships [10638]
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
**Donor(s):** Anonymous (Alumnus)
**Qualification(s):** In-course student-athlete who is a current member of the Men's Basketball varsity team and has achieved a minimum 70% average in the previous academic year.
**Amount:** 4 awards of $2,500

Men's Soccer Alumni Scholarship [10771]
Made possible by the generous contributions of Men's Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.
**Donor(s):** Mr. Paul Wombwell (on behalf of the Men's Soccer Alumni Committee)
**Qualification(s):** Current member of the Gryphon Men's Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
**Amount:** several awards ranging in value from $1,000 to $3,500

Morton and Pauline Schmidt Memorial Scholarship [10429]
Established by the family and friends of Morton G. and Pauline E. Schmidt of Kitchener, Ontario to recognize their appreciation of their daughters' education at the University of Guelph. The recipient will be the student with the highest cumulative average. If two students are equally qualified, the student showing the greatest improvement in semester average will receive the Award. Application is not required.
**Donor(s):** Eleanor E. Wein
**Qualification(s):** Student registered in the Applied Human Nutrition major of the BASc. program who have completed at least 10.0 credits with a minimum 70% cumulative average.
**Amount:** 1 award of $750

Nathan Max Goldman Choir Scholarships [10774]
Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and/or the Chamber Choir. One award will be available to a student in each choir and will be given to the candidate who best combines high vocal achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required as a recommendation by Choir Director will be made to the SOFAM Awards Committee.
**Donor(s):** Mrs. Ada L. Goldman and the family of Nathan Max Goldman
**Qualification(s):** Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and/or the Chamber Choir and have been a member of the University of Guelph Choruses for at least two years.
**Amount:** 2 awards of $1,000

Nelson Women’s Institute Scholarship [10587]
This award will be provided to the student with the highest cumulative average above 75%. Preference will be given to a mature student. Application is not required.
**Donor(s):** Nelson Branch of the Halton District Federated Women’s Institutes of Ontario
**Qualification(s):** Students enrolled in any undergraduate program offered by the Department of Family Relations and Applied Nutrition.
**Amount:** 1 award of $1,000

Ontario Women’s Institute Scholarship [10160]
Offered by the Federated Women's Institute of Ontario. Apply to the FRAN Awards Committee, by May 15 with a CV/resume and cover letter outlining involvement in extracurricular activities.
**Donor(s):** Federated Women’s Institutes of Ontario
**Qualification(s):** Residents of Ontario with a minimum cumulative average of 70% who have completed at least 4.00 credits in the BASc. program and who have contributed to extracurricular activities. If other qualifications are equal, preference will be given to students who have participated in the Ontario 4-H program and/or students whose mothers are Women’s Institute members.
**Amount:** 3 awards of $1,000

Ottawa–Carleton ’83 International Ploughing Match (FRAN) Scholarship [10340]
Apply, by May 15, to the Department of Family Relations and Applied Nutrition with a letter outlining extracurricular activities.
**Donor(s):** Ottawa–Carleton International Ploughing Match Committee 1983
**Qualification(s):** Students from the City of Ottawa who have completed between 5.0 and 9.75 credits in the in the BASc. program and who have a minimum cumulative average of 70%.
**Amount:** 1 award of $1,500

Priscilla and Stanford Reid Trust Prize [10597]
Established in honour of the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written about the history of Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.
**Donor(s):** Priscilla and Stanford Reid Trust Fund
**Qualification(s):** Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.
**Amount:** 1 award of $500

Professional Staff Association Scholarship [10628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 by sending an email to awards@uregina.ca and include the name of the faculty member of the Professional/Managerial Group of the University of Guelph, and/or retired Professional/Managerial Group of the University of Guelph. This award may be held more than once, however, not in consecutive years. Preference will be given to students of current or retired P.S.A. members.
**Donor(s):** Professional Staff Association
**Qualification(s):** Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University, and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.
**Amount:** 1 award of $1,500

Professor Victor Matthews Track and Field Scholarships [10707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.
**Donor(s):** Various Donors
**Qualification(s):** Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
**Amount:** up to 10 $300 each

Rachel Cliff Scholarship [10790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.
**Donor(s):** Mr. Ronald & Nancy Cliff
**Qualification(s):** Current member of the Women’s Middle Distance Team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
**Amount:** 1 award of $1,500

Russell Athletic Scholarships [10722]
The recipients will be selected based on demonstrated leadership qualities and contributions to the team. Coaches will nominate students to the Athletic Awards Committee. No application necessary.
**Donor(s):** H.D. Brown Enterprises Ltd.
**Qualification(s):** Current members of a University of Guelph Varsity team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
**Amount:** 4 awards of $2,500

Sister Mary Frederick Sheehan Prize [C0216]
Established by the Ontario Dietetic Association Public Service Foundation in memory of the humane and professional leadership shown by Sister Mary Frederick Sheehan through her work at St. Michael's Hospital, Toronto. The recipient will be the student with the highest academic standing. Application is not required.
**Donor(s):** The Ontario Dietetic Association Public Service Foundation
**Qualification(s):** Students graduating from the Applied Human Nutrition major of the BASc. program who have been accepted a dietetic internship.
**Amount:** 1 award of $450
Sprung Family Men’s Basketball Scholarship [I0672]

Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. Timothy Sprung
Qualification(s): In-course student-athlete who is a current member of the Men’s basketball team and has achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $3,500

Stephanie Wilken Volunteer Scholarship [I0449]

Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to Student Financial Services with letter indicating the kind and extent of volunteer activities at the Wellness Centre by October 1. Selection committee is the Senate Committee on Awards on the recommendation of the Student Wellness Educator at the Wellness Centre.

Donor(s): Bev and Darlene Wilken
Qualification(s): Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre.
Amount: 1 award of $1,000

Susan E. Bain Memorial Scholarship [I0679]

This scholarship has been established by the family and friends of Susan E. Bain Allen, FACS BASc ’72. Selection will be based on the applicants’ contribution to university life in a leadership capacity. A demonstrated contribution in practicum placements and, on an ongoing basis, to the quality of life for families will also be considered. Apply to the department awards committee by May 15 with a letter outlining leadership roles in co-curricular involvements.

Donor(s): Family, friends and former colleagues of Susan E. Bain Allen
Qualification(s): Students registered in the Child, Youth and Family major of the BASc who have completed at least 15.0 credits, including FRHD 3250, with a minimum 70% cumulative average.
Amount: 1 award of $1,000

Thomas H. Peters Scholarship [I0233]

Application is not required.

Donor(s): Friends and associates of Thomas H. Peters
Qualification(s): Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.
Amount: 1 award of $250

Tom Mooney Scholarship [I0709]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Current member of the varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $1,000 to $3,500

Toronto District Beekeeper’s Association Scholarship [I0285]

A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application is not required.

Donor(s): Mr. Jack Robinson
Qualification(s): The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.
Amount: 1 award of $500

United Steelworkers Local 4120 Scholarship [I0293]

Apply to Student Financial Services by January 31 and provide the name of the USWA member and relationship to the applicant. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class standing in his or her previous full-time semester.

Donor(s): United Steelworkers LU4120
Qualification(s): Student who is a member or former member, or who is from the immediate family of a member of United Steelworkers LU 4120, and who is entering semester 2, 3, or 4 of a degree or diploma program in the Winter semester with a minimum 70% cumulative average.
Amount: 1 award of $1,000

University of Guelph Alumni Legacy Scholarship [I0735]

Funded through donations made to the University of Guelph Alumni Memorial Fund in memory of deceased alumni. The recipient will be selected based on academic achievement and volunteer contributions to the University of Guelph community. Apply to Student Financial Services by May 15 with a copy letter indicating name, degree and year of graduation of alumna/alumnus relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.

Donor(s): Various donors c/o University of Guelph Alumni Association Memorial Fund
Qualification(s): Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with both a minimum cumulative average of 75% and demonstrated leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumna/us of the University of Guelph or its founding colleges.
Amount: 1 award of $1,000

Van Straalen and Van Der Hoeven Memorial Scholarship [I0296]

Selection will be made on the basis of participation in university activities and in the student’s home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

Donor(s): Mr. & Mrs. J. Van Straalen & family and Mr. & Mrs. Hans Van Der Hoeven & family
Qualification(s): Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.
Amount: 2 awards of $400

Vera Ayres MacBeth Scholarship [I0159]

Mr. Bernard Ward has established this scholarship in memory of Mrs. Vera Ayres MacBeth, a 1923 graduate of the Macdonald Institute. Awarded to the student with the highest academic standing. Application is not required.

Donor(s): Mr. Bernard A. Ward
Qualification(s): Full-time students registered in the BASc program who have completed at least 2.5 and 7.5 credits.
Amount: 1 award of $400

Virginia McEwen Memorial Scholarship [I0186]

Established by the family and friends of Virginia McEwen, an alumna Macdonald Institute, Class of ’57 (B.H.SC.), recipient of a University of Guelph Master's degree in 1971 and an enthusiastic participant in a wide range of activities of the University of Guelph Alumni Association for many years. One scholarship is awarded on the basis of academic performance in at least 9.50 credits completed prior to the first co-op work term. The second scholarship is awarded based on both an outstanding rating both on the Work Report and the Supervisor’s Report on the student’s first work term as well as on the basis of academic performance in at least 17.0 credits completed prior to the final co-op work term. Application is not required.

Donor(s): Dr. Freeman McEwen and family
Qualification(s): Students registered in a BASc co-op program who satisfy one of the following: i) completed at least 9.5 credits prior to the first co-op work term, ii) completed at least 17.0 credits prior to the final co-op work term.
Amount: 2 awards of $750

W.C. Winegard Medal [C0311]

The W.C. Winegard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

Donor(s): The Board of Governors of the University
Qualification(s): Graduating student who excels both academically and in extracurricular activities.
Amount: 1 award of a Gold medal

W.N. Vaughan Medal [C0299]

Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.

Donor(s): Friends of Walter N. Vaughan
Qualification(s): Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.
Amount: 1 award of a Medal
William L. McEwen OAC '43 Men's Varsity Hockey Scholarships [I0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mrs. Irene McEwen

**Qualification(s):** Current member of the Men’s Hockey program who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [I0634]

Established by Dr. William P. Weber, OVC '59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. William P. Weber

**Qualification(s):** In-course student-athlete who is a current member of the Men’s Football team and achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $2,500

In-course Scholarships with Financial Need

**3M Canada Scholarships** [I0564]

Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** 3M Canada Company

**Qualification(s):** Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.

**Amount:** Various awards of up to $4,000

**Barbara A. Bowen Scholarship** [I4390]

Established by Barbara A. Bowen, MAC '57. Preference will be given to students registered in Department of Family Relations and Nutrition. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** Barbara A. Bowen with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students who have a minimum 75% average and are registered in any degree program in the College of Social and Applied Human Science with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $4,500

**Brian Kenneth Howard Memorial Scholarship** [I4548]

Established by Kenneth and Irene Howard in memory of their son, Brian Kenneth Howard. Awarded to a student assessed as having financial need with a preference given to students from York, Durham or Simcoe counties. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** Kenneth and Irene Howard with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Student registered in any degree program with a minimum 75.0% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $2,700

City of Guelph 175th Anniversary Scholarship [I0515]

Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.

**Donor(s):** The Guelph Community Foundation

**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 70.0% cumulative average, demonstrated volunteer leadership on campus and/or in the community and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian citizens or permanent residents at the time of application.

**Amount:** 1 award of $2,000

**Eleanor Morgan & Bill Archibald Scholarships** [I4540]

The family of Eleanor and Bill Archibald, with the assistance of the Ontario government’s OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** The Family of Eleanor & Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, have demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).

**Amount:** 1 award of $1,000

**Erin Demers Memorial Scholarship** [I0406]

The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.

**Donor(s):** Family and friends of Erin Katrina Demers

**Qualification(s):** Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.

**Amount:** 1 award of $1,500

**Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship** [I4546]

Established by Ernest Kendall, O.A.C. BSA 1932, with the assistance of the Ontario government's OTSS program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award you must list it on your N.A.F. Selection will be made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD

**Donor(s):** Ernest Kendall with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students with demonstrated financial need who are members of the women's varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

**Euclid-Hitachi Scholarships** [I4517]

Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500
FACS ‘85 Heritage Scholarship [I4537]

Established by the Class of FACS ‘85, with the assistance of the Ontario government’s OSOTF program. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.) and include a letter outlining the extent of community volunteerism or involvement in an on-campus student club, particularly as it relates to your area of study. To be considered for this award, you must list it on your N.A.F. ACCESS AWARD.

**Donor(s):** The Class of FACS ‘85 with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students enrolled in the BASc. program who have completed at least 10.0 course credits with a minimum 70% cumulative average and has a record of community and/or on-campus student club involvement. Preference will be given to the student who has been involved with community volunteerism or an on-campus student club related to his or her area of study. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $500

Graham Family Incentive Scholarship [I4506]

Provided by Harvey Graham (O.A.C. ‘39) with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Harvey Graham O.A.C. ‘39 with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $4,000

Helen G. West ACCESS Scholarship [I4391]

Provided by the family of Helen G. West, a Mac ‘30 graduate who was a member of the first University of Guelph Senate and a charter member of the University of Guelph Alumni Association, with the assistance of the Ontario government's OSOTF program. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining the extent of involvement in extracurricular activities. To be considered for this award, you must list it on your N.A.F. ACCESS AWARD

**Donor(s):** Nancy Sawyer, Mary Helen Simpson, their families, and Belle Shirlaw with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** A student in any major of the BASc. program who demonstrates financial need and who has completed at least 10.0 course credits with a cumulative average of at least 70%. Preference will be given to a student who has been involved with extracurricular activities. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $1,200

John Embry Family Scholarship [I4549]

Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Mr. John Embry with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Student athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $3,500

Kathleen and R. Douglas Kennedy Scholarship in CSAHS [I0546]

Kathleen (MAC ’39) and Douglas (O.A.C. ’39) Kennedy met at a “hop” on campus in 1937 and later married. They established this scholarship to celebrate their time on campus and their 62 years of marriage. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). This scholarship will be awarded to a student in CSAHS with high academic achievement with financial need. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy

**Qualification(s):** Students registered in the Department of Family Relations and Applied Nutrition with a minimum cumulative average of 70% and demonstrated financial need.

**Amount:** 1 award of $1,000

Landoni Athletic Scholarship [I4405]

Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominees will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD

**Donor(s):** Peter Landoni with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,000

Mrs. Elsa Hevenor Stewart Scholarships [I0271]

Endowment fund provided by the estate of Mrs. Elsa H. Stewart, formerly of Pakenham, Ontario. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Selection will be based on the greatest demonstration of financial need.

**Donor(s):** The Estate of Elsa Hevenor Stewart

**Qualification(s):** Students registered in the BASc. program who have completed at least 15.0 credits but no more than 17.5 credits with demonstrated financial need.

**Amount:** 2 awards of $1,000

Residence Life Staff Scholarship [I0697]

Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.

**Donor(s):** Student Housing Services

**Qualification(s):** Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.

**Amount:** 2 awards of $500

Returning Student Residence Scholarship [I0696]

Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is a award is conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.

**Donor(s):** Student Housing Services

**Qualification(s):** Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.

**Amount:** 3 awards of $500
Robert, Louis and Helen Shaw Memorial Degree Scholarships [I4520]
Established by the Shaw Scholarship Committee with the assistance of the Ontario government's OSOTF program. Apply with a letter, including a summary of local agricultural activities and a completed Financial Need Assessment Form (N.A.F.), to Student Financial Services by October 7. **ACCESS AWARD**

**Donor(s):** The Shaw Scholarship Committee with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in the BASc., B.Comm. in Agricultural Business, B.Sc.(Agr.) or D.V.M. programs studying agriculture, horticulture, equine studies, food and nutrition or veterinary sciences with demonstrated financial need, a 70% cumulative average and involvement in local agricultural activities. Preference will be given to first year students from Peterborough County. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** several awards of up to $2,500

Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [I4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. **ACCESS AWARD**

**Donor(s):** Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Entering student athlete who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent, and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** various awards of up to $3,500

Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [I4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. **ACCESS AWARD**

**Donor(s):** Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Current member of the women’s varsity ice hockey team who is enrolled in an undergraduate program with a minimum 70% average or equivalent during the previous academic year as a student-athlete who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** various awards of up to $3,500

Tara Lynn Giuliani Memorial Scholarship [I0375]
In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7. **ACCESS AWARD**

**Donor(s):** The Giuliani Family

**Qualification(s):** Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.

**Amount:** 1 varying amounts

Tony and Anne Arrell Scholarships [I0686]
Tony Arrell, OAC Bsc (Agr) ’67 and Anne Arrell, MAC BHSC ’68 have established 20 in-course awards for students with financial need. Awards will be distributed so that all colleges are represented. Apply by October 7 with a completed Financial Need Assessment Form to Student Financial Services. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Tony and Anne Arrell, Burgundy Asset Management

**Qualification(s):** Students registered in any degree program who have completed a minimum of 2.0 credits with a minimum 80% cumulative average and demonstrated financial need.

**Amount:** 20 awards of $5,000

**University of Guelph Retiree Association Degree Scholarship [I0569]**
The University of Guelph Retiree Association established this $1,500 scholarship in 2007 to acknowledge in-course student achievement. The student having the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last two semesters of full-time studies will be chosen. Apply by May 15th to Student Financial Services with a letter indicating name of and relationship to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.

**Donor(s):** University of Guelph Retirees Association (U.G.R.A.)

**Qualification(s):** Students with a minimum 75% cumulative average registered in a degree program who are related to a retiree of the University of Guelph as child, grand child or great grand child.

**Amount:** 1 award of $1,500

**W. F. Mitchell Athletic Scholarship [I4550]**
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. **ACCESS AWARD**

**Donor(s):** The Mitchell Family with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students who is a member of a varsity team who has achieved a minimum 70% average in the previous academic year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

**Walter and Marion MacDougald Scholarship [I4530]**
Established by the family of Walter and Marian MacDougald on the 50th wedding anniversary of their parents, in recognition of their gift of life-long learning to their five children, with the assistance of the Ontario government's OSOTF program. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) and a letter that includes a statement that outlines your interests in food supply, utilization, farmland conservation or woodlot management. Preference will be given to students enrolled in a program involved in food supply or utilization, farmland conservation or woodlot management. **ACCESS AWARD**

**Donor(s):** Doug MacDougald, D.V.M. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students demonstrating financial need with a minimum of 10.0 credits and less than 15.0 credits and who are in the following programs/majors/minors: BASc, BSc(Agr), BSc(Env), BSc(Food Science, Animal Biology, Nutrition, or Forest Science), or D.V.M., having a minimum cumulative average of 70%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $750

**William & Nona Heaslip Scholarship [I0589]**
Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time (minimum 80% of a full course load) study. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** The William and Nona Heaslip Foundation

**Qualification(s):** Students that have completed 4.0 credits but no more than 6.0 credits in any degree program; are a Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financial need.

**Amount:** 2 awards of $15,000

**Yeandle Family Scholarships [I3546]**
Provided by the Estate of Audrey Yeandle, a Mac2 graduate and life-long supporter of the University, with the assistance of the Ontario government's OSOTF program. Awards will be made on the basis of financial need and academic achievement. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. **ACCESS AWARD**

**Donor(s):** The Estate of Audrey Yeandle with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in a program in the College of Social and Applied Human Sciences with a minimum cumulative average of 70%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards up to $2,000
**In-course Bursaries**

<table>
<thead>
<tr>
<th>Bursary Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archie and Isabelle (Cook) Rintoul Bursary (FRAN)</td>
<td>2 awards of $1,500</td>
<td>Students who have completed a minimum of 7.75 credits in a program offered by the Department of Family Relations and Applied Nutrition (F.R.A.N.) and who have demonstrated financial.</td>
<td>Archie and Isabelle (Cook) Rintoul</td>
</tr>
<tr>
<td>Bette Stephenson Accessibility Bursary</td>
<td>3 awards to a maximum of $1,500</td>
<td>Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>Birks Family Foundation Bursary</td>
<td>3 awards to a maximum of $1,500</td>
<td>Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures.</td>
<td>Birks Family Foundation</td>
</tr>
<tr>
<td>Brinson Partners Inc. Bursaries</td>
<td>1 award of $1,000</td>
<td>Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Brinson Partners Inc.</td>
</tr>
<tr>
<td>Burnbrae Farms Bursaries</td>
<td>2 awards of $1,500</td>
<td>Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Burnbrae Farms</td>
</tr>
<tr>
<td>Class of ’72: 25th Reunion Bursaries</td>
<td>3 awards of $1,000</td>
<td>Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Class of ’72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
</tbody>
</table>

### Elizabeth Burton Bursaries [13503]

Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF program, provides bursaries to students demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. **ACCESS AWARD.**

**Donor(s):** Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards of varying amounts

### George and Margaret J. Miles Memorial Bursary [13544]

Established by the family to honour the memory of the parents, George and Margaret J. Miles, life long supporters of education. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter describing involvement in extra-curricular activities to Student Financial Services by October 7. **ACCESS AWARD.**

**Donor(s):** Established by the Miles Family with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** All undergraduate arts and social science students with demonstrated financial need who in or beyond semester 3 and have at least a 75% cumulative average in all courses completed to date are eligible to apply. Preference will be given to students who participate and provide leadership in extra-curricular or community activities (examples include student government, charitable organization, volunteer work, Big Brothers/Sisters, contributions to school and/or community, etc.). Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

### Gryphon Investment Council Bursaries [13513]

Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. **ACCESS AWARD.**

**Donor(s):** Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

### Guelph Compassionate Health and Dental Bursary [13061]

This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Students must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.

**Donor(s):** Student Health and Dental Plan Reserve

**Qualification(s):** Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress.

**Amount:** Several varies to a maximum $1,500

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2012-2013 Undergraduate Calendar   Last Revision: Oct. 19, 2012
Guelph Student Assistance ACCESS Bursaries [I3556]
These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** Several awards of varying amounts up to $1,000

Guelph Student Assistance Program [I3056]
These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** Undergraduate Students

**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need.

**Amount:** Several awards of varying amounts up to $1,000

Helen Mahon Memorial Bursary [I3063]
Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.

**Donor(s):** Family and Friends of Helen Mahon

**Qualification(s):** Students registered in any program who come from a family where one parent is deceased.

**Amount:** 1 award of $500

Howard and Myrtle Rogers Bursaries [I3537]
Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 10 up to $2,000

International Emergency Medical Aid Assistance [I3059]
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.

**Donor(s):** University of Guelph

**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.

**Amount:** Several awards of varying amounts

International Student Bursaries [I3009]
Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.

**Donor(s):** Mrs. Norma L. Valeriote

**Qualification(s):** Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.

**Amount:** Several of varying amounts

Irvine and Grace Black Memorial Bursary [I3051]
Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women's Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women's Institute by October 7.

**Donor(s):** Family and friends of Irvine and Grace Black

**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women's Institute.

**Amount:** 1 award of $500

Marie Hardacre Bursary [I3548]
Established by Mrs. A. Marie Hardacre, MAC DHE 1930 for students in CSAHS with a preference to female students registered in the Department of Family Relations and Applied Nutrition. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Mrs. A. Marie Hardacre with matching funding through the Ontario Trust for Student support program

**Qualification(s):** Students registered in any academic program in the College of Social and Applied Human Sciences with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $4,500

Mary I. Whitelock Bursaries [I3524]
Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government's OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 13 awards of $2,000

Mildred Taylor Misener Bursaries [I3012]
Dr. Andrew Grant Misener, an alumnus of the University of Guelph, has provided this endowment fund. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Dr. Andrew Grant Misener, President of Friends of the University of Guelph, Inc.

**Qualification(s):** Students in the BASc. program with established financial need.

**Amount:** Several varies

Ontario Co-operatives R.P. Forshaw Bursary [I3013]
The Co-operatives, Credit Unions, and friends of Professor R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.

**Donor(s):** The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw

**Qualification(s):** Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.

**Amount:** 1 award of $400
**Robert Auger Humanitarian Bursary [I3058]**

This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.

**Donor(s):** Office of Registrarial Services  
**Qualification(s):** Students registered in a degree program.  
**Amount:** Several grocery vouchers or book vouchers

**Scotiabank Bursaries [I3532]**

Established by Scotiabank, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTE award (see General Statements on Awards).  
**Amount:** 2 awards of $1,500

**Shirley Endean Bursaries [I3570]**

These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** Several awards of varying amounts

**Stoney Creek Women's Institute Bursaries [I3107]**

Established by the Stoney Creek Women's Institute to commemorate the Sixtieth Anniversary of its founding. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Stoney Creek Women's Institute  
**Qualification(s):** Students from the region of Hamilton-Wentworth and registered in the BASc program with demonstrated financial need.  
**Amount:** 1 award of $300

**University of Guelph Access Bursaries [I3522]**

Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Alumni and Friend of the University of Guelph with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTE award (see General Statements on Awards).  
**Amount:** Several awards of $500, Several awards of $2,000

**University of Guelph Child Care Bursaries [I3053]**

In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.  
**Donor(s):** University of Guelph  
**Qualification(s):** Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need.  
**Amount:** Several awards of up to $2,000

**University of Guelph International Bursary [I3048]**

The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

**Donor(s):** University of Guelph  
**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.  
**Amount:** Several awards ranging in value from $100 to $4,000

**University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I3047]**

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.  
**Amount:** Several awards to a maximum of $500

**University Police Bursaries [I3019]**

The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** The University Police  
**Qualification(s):** Full-time undergraduate with demonstrated financial need.  
**Amount:** Several of various amounts

**University Student Assistance Program [I3057]**

These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).  
**Amount:** Several awards of various amounts to a maximum of $1,000
In-course Travel Grants

A.E. Wardlaw Travel Grant [T0065]
Established by Mrs. Alta E. Wardlaw (nee Chapman), a 1912 student at Macdonald Institute. Selection will be based on the cost of the travel and the benefit it will bring to the student's program of study. Preference will be given to the student attending a professional conference/meeting. Apply by May 15 to the CSAHS Awards Committee by completing the CSAHS Awards Application and attach a letter describing the travel, the benefit it will bring to your program and an overall travel budget. This award can only be held once.
Donor(s): Mrs. Alta Ethelyn Wardlaw
Qualification(s): Students registered in the College of Social and Applied Human Sciences who have completed up to 15.0 credits and who will be travelling for academic reasons, or to attend an appropriate professional conference/meeting.
Amount: 1 award of $1,000

Aeroplan International Travel Grant [T0604]
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a “Travel Grant Need-based Application”. Preference will be given to students participating in the semester abroad or academic exchanges. Award is subject to the availability of Aeroplan miles and may not be available every year.
Donor(s): Aeroplan
Qualification(s): Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.
Amount: 1 or more awards of a plane ticket

Arthur D. Latorium Undergraduate Travel Grants [T0058]
An endowment fund established in memory of Arthur D. Latorium, O.A.C. ’50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.
Donor(s): The Estate of Arthur D. Latorium
Qualification(s): Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.
Amount: several up to a maximum of $1000

Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]
The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government’s OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.
Donor(s): Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Undergraduate degree students in either the second or third year of study. Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a “Letter of Permission” prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: A number of awards to a maximum of $7,500

Drs. Frederick Kozak and Lorna Hruby Travel Grant [T0784]
Established by the parents of a BAH graduate in 2008 and MA in 2011. Selection will be based on level of commitment to international development and plan for engagement. There are two distinct application deadlines - April 15 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, this award can be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the planned international activity including local engagement, and commitment to international development. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.
Donor(s): Drs. Frederick Kozak and Lorna Hruby
Qualification(s): Full-time students registered in any major offered by CSAHS who have completed at least 10.0 credits with a minimum cumulative average of 70%, and who demonstrate the desire and aptitude to help build capacity and address social issues in international communities and are participating in any course-related international travel.
Amount: 1 award of $5,000

Jeff and Donna Lozon Travel Grant [T0772]
Selection will be based on budgetary considerations and academic standing. There are two distinct application deadlines - April 15 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, this award can be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.
Donor(s): Jeff Lozon (CSS BA ’76) and Donna Doherty Lozon
Qualification(s): Full-time students registered in any degree program in CSAHS who are participating in any course-related international travel.
Amount: 2 awards of $1,000

Kiyoko Miyahashi International Travel Grant [T0742]
Established by Dr. Kiyoko Miyahashi, a retired faculty member from the Department of Geography, and Dr. Edward A Johnson. Selection will be based on budgetary considerations and academic standing. There are two distinct application deadlines - April 15 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, both awards could be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.
Donor(s): Dr. Kiyoko Miyahashi and Dr. Edward A Johnson
Qualification(s): Full-time students registered in any degree program in CSAHS with a minimum 70% cumulative average who are participating in any course-related international travel.
Amount: 2 awards of $3,500

OURA Innovation Travel Grant [T4393]
Established in recognition of an innovative student fee protocol put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7th with a completed Financial Need Assessment Form and include one-page description of the intended travel. ACCESS AWARD
Donor(s): Ontario University Registrars' Association (OURA) with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $350
## Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]
The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government's OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD.

**Donor(s):** The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards of varying amounts to a maximum of $1,000

## The Jean Rich Foundation Travel Grant [T0730]
Selection will be based on budget considerations, and participation in community development projects. There are two distinct application deadlines - April 1 for Summer/Fall and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, both awards could be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity, including involvement in community development projects, and the financial need. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

**Donor(s):** The Jean Rich Foundation

**Qualification(s):** Full-time students registered in the College of Social and Applied Human Sciences who are participating in international travel activities in developing countries as part of a course of study.

**Amount:** 2 awards of $2,500

## University of Guelph Travel Scholarships [T0421]
The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.

**Donor(s):** University of Guelph

**Qualification(s):** Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.

**Amount:** Several awards up to $1,500
**Bachelor of Arts**

Please refer to the General Statement on Awards for:
- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

**Entrance Scholarships**

<table>
<thead>
<tr>
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<td>Current member of the Gryphon Football team and who has achieved a minimum 70% admission average.</td>
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<td>2003-2009 Men's Cross Country and Track and Field Legacy Scholarship [E0769]</td>
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<td>Allen Singleton Hockey Scholarships [E0687]</td>
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<td>2012-2013 Undergraduate Calendar</td>
<td>William B. Lowe and Amos Edgar Lowe</td>
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**Angelo and Frank Agro Undergraduate Scholarship [E0520]**

These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership role(s) in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

**Barry Lee Scholarship for Agricultural Excellence [E0797]**

Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

**Bob & Joyce Brooks Football Scholarships [E0691]**

The recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Cooper Memorial Scholarship [E0185]**

Endowed by the late William B. Lowe of Fort Francis, Ontario. Preference will be given first to eligible students from the district of Rainy River, then from the district of Kenora or Thunder Bay, and finally from the remaining districts of Northern Ontario. Application is not required.

**December 6th Memorial Scholarship [E0005]**

This scholarship, established by the Faculty Association, is awarded in memory of the fourteen women murdered in December 1989 at Ecole Polytechnique and is intended to attract women to a profession that is largely comprised of men. The recipient will be selected on the basis of academic performance. For continued eligibility beyond semester 1, the student must maintain a minimum of 70% cumulative average. Demonstrated financial need may also be considered. Application is not required.

**Interagency Scholarship [E0452]**

Made possible by the generous contributions of the members of the 1961-1964 Redmen Football teams. The recipients(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

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**Angelo and Frank Agro Undergraduate Scholarship [E0520]**

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**Barry Lee Scholarship for Agricultural Excellence [E0797]**

Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

**Board of Governors’ Scholarships [E0317]**

The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

**Bob & Joyce Brooks Football Scholarships [E0691]**

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Coach Rudy Florio Football Scholarship [E0737]**

Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**December 6th Memorial Scholarship [E0005]**

This scholarship, established by the Faculty Association, is awarded in memory of the fourteen women murdered in December 1989 at Ecole Polytechnique and is intended to attract women to a profession that is largely comprised of men. The recipient will be selected on the basis of academic performance. For continued eligibility beyond semester 1, the student must maintain a minimum of 70% cumulative average. Demonstrated financial need may also be considered. Application is not required.

**Interagency Scholarship [E0452]**

Made possible by the generous contributions of the members of the 1961-1964 Redmen Football teams. The recipients(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

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Dr. C. John Small Commonwealth Scholarship [E0611]
Established in honour of Dr. C. John Small, OAC BSA ’42, Hon D. Law ’75, and his lifelong dedication to foreign service. Selection will be based on the assessment of: (a) a one-page submission describing the significance for the student visiting Guelph to the program of study at the partner exchange University, (b) two faculty references of no more than one-page each, and (c) consistent high performance in course work completed, as documented by a transcript of program grades to date. Apply to the Centre for International Programs by May 1 for visiting during the subsequent Fall or Winter semesters with the above mentioned documents.

Donor(s): Mrs. Jean K. Small
Qualification(s): Full-time visiting exchange students registered for at least one semester from a Commonwealth developing country who are pursuing studies or conducting research in the area of agriculture and rural development.
Amount: 1 award of $1,500

Dr. Frederick and Mrs. Mabel Hung Memorial Scholarships [E0320]
The colleagues and family of the late Prof. Frederick Hung make available this scholarship to encourage students to major in Geography. The award will be given to the student who has achieved the highest admission average. The scholarship is not tenable with other University of Guelph entrance awards greater than $5000. Application is not required.

Donor(s): The family and friends of Dr. Frederick Hung
Qualification(s): Student entering the Bachelor of Arts program with a major in Geography.
Amount: 1 award of $700

Dr. Jack Britney Scholarship [E0034]
Established in memory of Dr. Jack Britney, a graduate of ’57A and O.A.C. ’60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to Graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.

Donor(s): Friends and Associates
Qualification(s): Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph.
Amount: 1 award of $1,000

Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]
Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the Varsity Cross / Country or Track and Field Team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

Earl B. MacNaughton Entrance Scholarships [E0172]
Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Emphasis during selection will be given to academic achievement in high school science and mathematics. Application is not required.

Donor(s): Earl B. MacNaughton
Qualification(s): Students with high academic standing, entering an honours program in the College of Physical and Engineering Science.
Amount: 4 awards of $1,000

Elaine Scott-Thomas Track and Field Scholarship [E0706]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Dave Scott-Thomas CBS BSc ’88
Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and has achieved a minimum 80% admission average.
Amount: 1 award of $1,500

Embry Family Scholarship [E0736]
Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. John Embry
Qualification(s): Entering student-athlete who is a member of a varsity team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [E0627]
Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Ernest Kendall
Qualification(s): Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.
Amount: 2 awards of $1,350

Football Endowment Fund (FEF) Scholarship [E0644]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Various University of Guelph donors
Qualification(s): Entering student-athlete who is a member of the Men's football team and who has achieved a minimum 80% admission average.
Amount: various awards of $750 to $3,500

George A. Gray O.A.C.’51 Varsity Scholarships [E0487]
Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

Donor(s): Mrs. George A. Gray
Qualification(s): Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
Amount: 2 awards of $1,250

George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): George Ames
Qualification(s): Entering student-athlete who is a member of the Varsity Cross Country team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Gerd and Christel Baldauf Men's Basketball Scholarship [E0639]
Established by Christian Baldauf, BSc. ’95, in honour of his parents. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. Christian Baldauf
Qualification(s): Student-athlete entering the BSc program who is a member of the varsity Men’s Basketball team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Gordon W. Innes Scholarship [E0140]
Application is not required.

Donor(s): Gordon W. ‘Sparky’ Innes Scholarship Fund Committee of the Woodstock Agricultural Society.
Qualification(s): Student entering any degree program from Oxford County with the highest admission average.
Amount: 1 award of $1,400

Gryphon Athletic Scholarships [E0631]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): University of Guelph
Qualification(s): Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
Amount: various awards of $750 to $3,500
Hardy International Student Scholarship [E0659]
Selection is based on the assessment of the student's admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required.

**Donor(s):** Mrs. Marion Hardy  
**Qualification(s):** Full-time international students (defined as paying the international student tuition and fees) entering any degree program.  
**Amount:** 1 award of $3,000

Honours Mathematics or Statistics Scholarship [E0131]
This scholarship is awarded to the student with the highest admission average. Application is not required.

**Donor(s):** Faculty of the Department of Mathematics and Statistics, via the C.P.E.S. Scholarship Fund  
**Qualification(s):** Students entering semester one of the Honours Mathematics or Statistics degree program.  
**Amount:** 1 award of $500

International Student Entrance Scholarships [E0408]
In support of the University's strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is not required.

**Donor(s):** University of Guelph  
**Qualification(s):** Students on a “student visa” entering an undergraduate degree program at the University of Guelph with a record of high academic achievement and extracurricular involvement, and studying full-time. This award is offered for the first year of study.  
**Amount:** Several awards ranging in value from $500 - $6,000

J.D. MacLachlan Scholarship [E0170]
Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.

**Donor(s):** The J.D. MacLachlan Trust  
**Qualification(s):** Students entering any degree program at the University of Guelph.  
**Amount:** 1 award of $1,500

Jack and Lillian MacDonald Scholarship [E0379]
Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald  
**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).  
**Amount:** 1 award of $900

Kelly Bertrand Cross Country Scholarship [E0684]
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand  
**Qualification(s):** Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.  
**Amount:** 1 award of $2,000

Kitty Newman Memorial Scholarship [E0655]
Provided by the Estate of Professor Jay Newman, Ph.D., F.R.S.C. for the purpose of recognizing and encouraging promising scholars in the humanities. These scholarships will be awarded to the students with the highest admission averages and preference will be given to those students with a declared major in philosophy. Application is not required.

**Donor(s):** The Estate of the late Professor Jay Newman  
**Qualification(s):** Students entering the B.A. program in the College of Arts with a minimum 80.0% admission average.  
**Amount:** 3 awards of $1,200

Larry Pearson Men's Volleyball Athletic Scholarships [E0618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men's varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson  
**Qualification(s):** Entering student-athlete who is a member of the men's varsity volleyball team and who has achieved a minimum 80% admission average.  
**Amount:** several awards up to $3,500

Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [E0732]
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Maryam Latifpoor-Keparoutis  
**Qualification(s):** Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $1,200

Lincoln Alexander Scholarships [E0689]
Established in 2001 in honour of Lincoln Alexander, Chancellor Emeritus of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This award cannot be held with the President’s Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

**Donor(s):** Many Donors  
**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and communities. In addition, students must be: Aboriginal; or a person with a disability; or a member of a racial minority.  
**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

Lloyd Dorf Memorial Hockey Scholarship [E0708]
Established in memory of Lloyd Dorf to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Family and Friends of the late Lloyd Dorf  
**Qualification(s):** Entering student-athlete who is a member of the men’s varsity hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $1,000

McArthur-Humphries Scholarship [E0183]
An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county. These scholarships are awarded to students with the highest admission averages. Application is not required.

**Donor(s):** Wilhelmina McArthur-Humphries Trust Fund  
**Qualification(s):** Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.  
**Amount:** 12 awards of $1,000

Men's Basketball Scholarships [E0638]
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Anonymous (Alumni)  
**Qualification(s):** Entering student-athlete who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.  
**Amount:** 4 awards of $2,500
Men’s Soccer Alumni Scholarship [E0771]

Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)

**Qualification(s):** Entering student-athlete who has been a member of the Gryphon men’s soccer team with a minimum 80% admission average.

**Amount:** several awards ranging in value from $1,000 to $3,500

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Moulton-Hutchinson Family Track and Field Scholarship [E0705]

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** The Moulton and Hutchinson Families

**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $3,500

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Ontario Institute of Agrologists’ Mike Jenkinson Memorial Scholarship [E0738]

Established to honour Mike Jenkinson (OAC BSA 1963) who demonstrated and promoted professionalism in agriculture through his work and involvement in OIA. Selection will be based on development of professional skills as demonstrated by attendance at conferences or workshops, participation in or leadership on committees, organizations, etc., involvement in business ventures, volunteering, mentoring or community involvement. Preference will be given to students entering from the High Skills Agriculture Program at the high school level and if no applications are received from this program, selection will be based on the highest admission average. Apply by April 15th to the OAC Awards Office with a letter of no more than 2 pages outlining attendance or presentations at conferences or workshops, participation in or leadership on committees, organizations, etc., involvement in business ventures, volunteering, mentoring or community involvement. Please indicate whether the High Skills Agriculture Program has been taken in high school.

**Donor(s):** Ontario Institute Of Agrologists

**Qualification(s):** Students entering any OAC degree program with a minimum 80% admission average.

**Amount:** 1 award of $1,000

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Pamela Wallin Chancellor’s Scholarships [E0688]

Established in 2009 in honour of Pamela Wallin, Chancellor of the University of Guelph and considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.

**Donor(s):** University of Guelph

**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have taken a leadership role in activities that demonstrate an interest in international relations and development and who indicate an ongoing desire to gain a broader subject knowledge through course work and/or engagement in the discipline and demonstrate the potential to become leaders in society.

**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus $6,000 stipend for summer research assistantship)

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President’s Scholarship [E0238]

Established in 1987 in honour of their donors or distinguished members of the University and are considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the Lincoln Alexander Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

**Donor(s):** A number of President's Scholarships have been named in honour of the following people and/or donors:

- **Cecil H. Franklin and Ingrid Franklin**
  - In honour of Cecil Franklin, former Chair of the Board of Governors and Honorary Fellow of the University, the University of Guelph has named one of these twelve prestigious entrance awards to recognize his financial contributions and volunteer support to the President's Entrance Scholarship program.

- **Charles S. Humphrey**
  - In memory of Charles S. Humphrey, a former President of Hart Chemical Company Canada Ltd. and long-time friend, the University has named one of these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President’s Entrance Scholarship program.

- **Jack R. Longstaffe**
  - The University of Guelph has named one of these twelve prestigious entrance awards in memory of Jack R. Longstaffe to recognize his financial contribution through his estate to the President’s Entrance Scholarship program.

- **Kathleen and Frederick Metcalf**
  - Mr. and Mrs. F.T. Metcalf of Guelph have endowed this award. After a distinguished career in cable TV, broadcasting and publishing, the late Mr. Metcalf retired as President of Maclean Hunter Ltd. and Chairman of the Board of Maclean Hunter Cable Ltd. He was Honorary Chairman of Maclean Hunter Cable Ltd. and a member of the University of Guelph Heritage Board (1996).

- **Rol-land Farms Limited**
  - Two of the scholarships are endowed by the four shareholders of Rol-land Farms Limited of Blenheim, Ontario, Hank, Peter, Arthur and Eric Vander Pol and their families. The Vander Pol families are generous supporters of a number of University projects and programs.

- **Lillian Stewart Usher**
  - The University of Guelph has named one of these twelve prestigious entrance awards in honour of Lillian Stewart Usher a friend of the University to recognize her financial contribution through her estate to the President’s Entrance Scholarship program.

- **Professor Victor Matthews Track and Field Scholarships [E0707]**
  - The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors

**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.

**Amount:** up to 10 $3500 each

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Quinn Memorial Scholarship [E0578]

Established in memory of Ronald J. Quinn (O.A.C. ’35) to an entering O.A.C. international full-time or exchange student. Selection will be based on academic performance, letters of reference and an assessment of the admission application package. Application is not required.

**Donor(s):** Mrs. Helen Quinn (O.A.C. ’35)

**Qualification(s):** Entering semester one of an O.A.C. program to an international full-time student or to an international exchange student with a preference to those students from developing nations.

**Amount:** 1 award of $1,500
### IX. Scholarships and Other Awards, Bachelor of Arts

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
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| Rachel Cliff Scholarship [E0790] | The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.  
**Donor(s):** Mr. Ronald & Nancy Cliff  
**Qualification(s):** Entering student-athlete who is a member of the Women’s Middle Distance Team and a distance runner who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $1,500 |
| Waterloo-Wellington Science & Engineering Fair (WWSEF) Scholarship [E0619] | Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.  
**Donor(s):** University of Guelph  
**Qualification(s):** Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.  
**Amount:** various awards of $1,000 |
| Spring Family Men’s Basketball Scholarship [E0672] | Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee.  
**Donor(s):** Mr. Timothy Sprung  
**Qualification(s):** Entering student-athlete who is a member of the Men’s basketball team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $3,500 |
| TSC Stores Scholarship in Memory of Gordon Illes [E0731] | Established in memory of Gordon Illes, a 1974 graduate of Ridgetown. Selection based on the quality of experience and/or leadership in volunteerism within the agriculture industry and the community, including extra curricular activities and career aspirations. (e.g. 4H, Junior Farmers, agricultural work experience). Preference will be given to current employees of TSC Stores or their children. Apply by April 15th to the OAC Awards Office with a letter outlining career aspirations, extracurricular and community involvement in agri-food related activities and include a letter from TSC Stores management to verify employment if applicable.  
**Donor(s):** TSC Stores L.P. (TSC)  
**Qualification(s):** Students entering any OAC degree program at the Guelph, Ridgetown or Kemptville campuses with a minimum 80% admission average.  
**Amount:** 1 award of $1,000 |
| University of Guelph Entrance Scholarships [E0291] | The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student's financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive the award. Application is not required.  
**Donor(s):** University of Guelph  
**Qualification(s):** Students entering first year of any undergraduate program from North Lambton County, Lambton Shores County, Sarnia-Lambton Regional School Board, or Lambton Kent District School Board.  
**Amount:** Several awards of $2,000, Several awards of $3,000 |
| University of Guelph Faculty Association Scholarship [E0292] | Award is payable at $750 per annum in the student’s 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required.  
**Donor(s):** University of Guelph Faculty Association  
**Qualification(s):** Students entering any undergraduate degree program at the University of Guelph from Wellington county.  
**Amount:** 1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters) |
| Ted Morwick Scholarship [E0796] | Established by Alumnus Ted Morwick, BA ’70. The student with the highest admission average will be selected. This award is conditional on maintaining a 80% average in the previous year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify. (i.e. The student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year.) If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opporunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary.  
**Donor(s):** Mr. Edward (Ted) Morwick  
**Qualification(s):** Students entering any degree program in the College of Arts.  
**Amount:** 1 award of $8,000 (payable over four years.) |
| W. Penri Morris Memorial Scholarship [E0430] | Established by the family in memory of Penri Morris, who was killed World War II action in 1944 at the age of 21. Penri grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required.  
**Donor(s):** Prof. Rosalina Morris  
**Qualification(s):** Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.  
**Amount:** 1 award of $1,000 |
| Tom Mooney Scholarship [E0709] | The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. No application is necessary.  
**Donor(s):** Various Donors  
**Qualification(s):** Entering student-athlete who is a member of the varsity men’s football team or men’s basketball team and registered in an undergraduate program and who has achieved a minimum 80% admission average.  
**Amount:** 3 awards of $1,200 |
| Walter and Halina Slabikowski Scholarship [E0766] | This scholarship was established in memory of Walter and Halina Slabikowski who sent their first generation Canadian born children to university to enrich their lives and provide them with greater opportunities. The award will be given to the student with the highest admission average. The residence deposit must be received by published deadline date. Submit by email to awards@registrar.uoguelph.ca your full name, student ID number and a statement attesting to your parents’ place of birth and non participation in post secondary education by April 15th.  
**Donor(s):** Irene Thompson and Slabikowski Family  
**Qualification(s):** Students entering any undergraduate program to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.  
**Amount:** 1 award of $1,000 |

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*Last Revision: Oct. 19, 2012*
William L. McEwen OAC '43 Men's Varsity Hockey Scholarships [E0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

**Donor(s):** Mrs. Irene McEwen  
**Qualification(s):** Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

**Amount:** Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [E0634]
Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. William P. Weber  
**Qualification(s):** Entering student-athlete who is a member of the Men’s Football team and achieved a minimum 80% admission average.

**Amount:** 1 award of $2,500

**Entrance Scholarships with Financial Need**

Bill Klopp Memorial Scholarship [E0150]
Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

**Donor(s):** Ross and Mary Lou Klopp  
**Qualification(s):** Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.

**Amount:** 1 award of $500

Devine Family Scholarships [E4542]
On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government's OTSS program, established these two awards for the purpose of diversifying the ethnicity of the student body of the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out once every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the “Devine Family Scholarship Application”. Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards, ACCESS AWARD.

**Donor(s):** Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability, or who are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $30,000 (payable over 4 years of study)

Interhall Council Entrance Scholarship [E0636]
Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.

**Donor(s):** Interhall Council  
**Qualification(s):** Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability.

**Amount:** 3 awards of $1,250

John Embry Family Scholarship [E4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.

**Donor(s):** Mr. John Embry with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $3,500

Kenneth O. Hammill-Blount Canada Scholarship [E4356]
Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government's OSOTF program. Selection will be based on greatest financial need from the President’s, Lincoln Alexander's or Pamela Wallin's Chancellor's Scholarships applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who submitted an application for the President’s, Lincoln Alexander's or Pamela Wallin's Chancellor’s Scholarships should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) by April 15. ACCESS AWARD.

**Donor(s):** The Blount Foundation, Inc. with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Entering students who have applied for the President's, Lincoln Alexander's or Pamela Wallin's Chancellor's Scholarships who are interviewed, but not successful in the competition with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $9,600 (payable in 8 payments of $1,200)

Landoni Athletic Scholarship [E4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Student must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD.

**Donor(s):** Peter Landoni with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,000
**Norman L. Gibbins Microbiology Scholarship [E4392]**

Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government's OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. **ACCESS AWARD**

| Donor(s): | Family, friends and colleagues of Norman Gibbins with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Students entering the Microbiology major in the B.Sc. program with a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 1 award of $1,000 |

**P.A.J. Clarke Family Scholarship [E0381]**

Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.). This award is not tenable with the President's Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

| Donor(s): | Paul and Aileen Clarke |
| Qualification(s): | Students with a minimum 80% average with a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm. |
| Amount: | 1 award of $12,000 (payable over 4 years) |

**Robert C. Skipper Scholarship [E0485]**

Established by Robert C. Skipper, Diploma in Agriculture 1948 and B.S.A. 1951. Selection will be based on academic standing, participation in extra-curricular activities and involvement in primary production and/or rural community activities. Financial need may also be considered. Apply to Student Financial Services by April 15 with a one-page summary outlining activities and by completing the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.).

| Donor(s): | Mr. Robert C. Skipper |
| Qualification(s): | Students entering a degree program in O.A.C that have graduated with a Diploma in Agriculture or Horticulture from the University of Guelph's Kemptville or Ridgetown campuses. |
| Amount: | 1 award of $1,000 |

**Rol-Land Farms Scholarships [E4519]**

Established by Rol-Land Farms, with the assistance of the Ontario government's OTSS program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. **ACCESS AWARD**

| Donor(s): | Rol-Land Farms with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s): | Students entering a degree program with demonstrated financial need and a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 13 awards of $2,000 |

**Spitzig Entrance Scholarship in Economics [E4543]**

A graduate (1986) of the B.A. Economics program has established these scholarships with the assistance of the Ontario government's OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. **ACCESS AWARD**

| Donor(s): | Anonymous with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 2 awards of $4,500 |

**W. F. Mitchell Athletic Scholarship [E4550]**

Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. **ACCESS AWARD**

| Donor(s): | The Mitchell Family with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 1 award of $1,350 |

**Entrance Bursaries**

**Elizabeth Maud Hunter (Shier) Bursary [E3575]**

This award was created to assist first year students in obtaining a post secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards. **ACCESS AWARD**

| Donor(s): | The Estate of the Late William Henry "Harry" Hunter with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Students entering any degree program at the University of Guelph with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 3 awards of up to $4,500 |

**First Year Student Residence Bursary [E3066]**

These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15.

| Donor(s): | Student Housing Services |
| Qualification(s): | Students entering any degree program with demonstrated financial need. |
| Amount: | 5 awards of $500 |

**Fred Hindle Bursary [E3500]**

Awarded in memory of Fred Hindle, O.A.C.'38, a long-time generous supporter of his alma mater, who at the time of his death, wanted future students to have the same opportunity for an education as he had received. This bursary is awarded with the assistance of the Ontario government's OTSS program. This bursary is dependent on continued demonstration of financial need and successful completion of study to advance into the next year. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. **ACCESS AWARD**

| Donor(s): | W. Roy Hindle and family with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s): | Entering O.A.C. degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statement on Awards). |
| Amount: | 1 award of $6,000 (payable over 4 years) |
### Harvey Graham Bursary [E3030]
Provided by Harvey Graham (O.A.C. ’39). Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services. Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15.

**Donor(s):** Harvey Graham, O.A.C. ’39  
**Qualification(s):** Students entering any degree program with demonstrated financial need and who have completed a minimum of 15.0 credits.

| Amount | 1 award of $1,200 |

### International Student Entrance Bursaries [E3043]
In support of the University’s strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar’s Entrance Award Application to Student Financial Services.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any degree program at the University of Guelph with demonstrated financial need.

| Amount | Several awards ranging in value from $1,000 to $3,000 |

### Registrar’s Entrance Bursaries [E3034]
Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar’s Entrance Bursary, but can be held with all other Entrance Awards.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.

| Amount | 500 awards of $2,000 |

### Robert Arthur Stewart Bursaries [E3272]
Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

**Donor(s):** The Estate of Mrs. H. Stewart  
**Qualification(s):** Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.

| Amount | 12 awards of $500 |

### University of Guelph Accessibility Bursaries [E3038]
Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar’s Entrance Bursary, but can be held with all other Entrance Awards.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.

| Amount | 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval |

### In-course Scholarships

#### 1961-1964 Redmen Football Scholarships [I0770]
Made possible by generous contributions of members of the 1961-1964 Redmen Football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Dr. Robert Keith (c/o 1961-1964 Football Committee)  
**Qualification(s):** Current member of the Gryphon football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

| Amount | 1961-1964 Redmen Football Scholarships |

#### 2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [I0769]
Made possible by generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)  
**Qualification(s):** Current member of the Gryphon Men’s Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

| Amount | 1 award of $1,500 |

#### A.M. Ross Centennial Scholarship [I0249]
Offered by Professor A.M. Ross (funded in part on royalties derived from the O.A.C. Centennial Alumni publication of The College on the Hill). Application is not required.

**Donor(s):** Professor A.M. Ross  
**Qualification(s):** Students in the 7th semester of the honours English program who have the highest standing in ten or more English courses taken during the first 6 semesters at the University of Guelph. An 80% average in these courses is required.

| Amount | 1 award of $1,000 |

#### Agnes Varis Scholarship in Women’s Studies [I0596]
Established by Dr. Agnes Varis, founder and president of Agar Chemicals. The award is provided to the student who demonstrates a passion and commitment for advancing education for women as evidenced by a major (or double major) in Women’s Studies. Preference will be given to those students whose application letter or C.V. demonstrates an understanding that women who benefit from advanced education must help other women advance in society, through community, mentorship and teaching roles. Apply by letter and/or curriculum vitae to the Director of Women’s Studies by May 15.

**Donor(s):** Dr. Agnes Varis  
**Qualification(s):** Students majoring (or double majoring) in Women’s Studies with a minimum cumulative average of 80% in Women’s Studies courses and who have completed a minimum of 15.0 credits.

| Amount | 1 award of $1,000 |
### Aino Menning Memorial Scholarship [10176]

Established in memory of Aino Menning. Application is not required.

**Donor(s):** Mrs. Tui Menning-Torrie  
**Qualification(s):** Student majoring in Music who has completed 1.0 credits in Applied Music and has demonstrated special ability in piano performance and high academic standing. All else being equal, preference will be given to a female student, in order to encourage women in the field.

**Amount:** 1 award of $500

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### AI Singleton Hockey Scholarships [10687]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** 1957-58 OA-VC Redmen Championship Hockey Team  
**Qualification(s):** Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

---

### Allen Keele Track and Field Scholarship [10663]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Allen Keele  
**Qualification(s):** In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $1,350

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### Al Singleton Memorial Scholarship [10176]

Established in memory of Aino Menning. Application is not required.

**Donor(s):** Mrs. Tui Menning-Torrie  
**Qualification(s):** Student majoring in Music who has completed 1.0 credits in Applied Music and has demonstrated special ability in piano performance and high academic standing. All else being equal, preference will be given to a female student, in order to encourage women in the field.

**Amount:** 1 award of $500

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### Bill Taylor Memorial Scholarship [10280]

Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.

**Donor(s):** AMF Canada Ltd.  
**Qualification(s):** Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or intercollegiate athletics.

**Amount:** 1 award of $900

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### Blackburn Scholarship [10404]

In commemoration of the 125th Anniversary of the Ontario Agricultural College, Dr. D.J. Blackburn, a retired faculty member of the former Rural Extension Studies program and former Director of the Associate Diploma Program has established this scholarship. Apply by letter, citing athletic contributions, to the O.A.C. Awards Committee by May 15.

**Donor(s):** D.J. Blackburn  
**Qualification(s):** O.A.C. degree or diploma student who has participated in intercollegiate athletics and maintained a minimum cumulative average of 70% while registered at Guelph. Athletic excellence and leadership will be used to determine the recipient.

**Amount:** 1 award of $500

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### Bob & Joyce Brooks Football Scholarships [10691]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Mrs. Joyce Brooks  
**Qualification(s):** Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

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### C.A.S.U. (College of Arts Student Union) Book Prizes [10155]

Students may win the prize once only in each department or school. Apply to the Chair of the Department or the Director of the School by April 30.

**Donor(s):** C.A.S.U.  
**Qualification(s):** Students enrolled in the College of Arts who have completed semesters 3, 4, 5 and 6, in the B.A. program. The recipient will have attained a 70% average in their major, and have demonstrated significant volunteer participation in the social, political or cultural life of the University of Guelph.

**Amount:** 5 Book prizes

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### C.A.S.U. (College of Arts Student Union) Prize [10161]

Apply by letter by April 1 to the College of Arts Awards Committee stating area of participation, dates of participation and nature of contribution. This award may be held only once.

**Donor(s):** C.A.S.U.  
**Qualification(s):** Student within the College of Arts who has completed semesters 3 - 8, and who participated in the social, political and cultural life of the University.

**Amount:** 1 award of $200

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### Canadian Agri-Marketing Association (Ontario) Scholarship [10541]

Provided by the Canadian Association of Agri-Marketing Association (Ontario). Apply to the O.A.C. Awards Committee by May 15 with a summary of participation in the Ag Ec & Biz Society and in agri-marketing initiatives as well as a letter of recommendation from a faculty member.

**Donor(s):** Canadian Agri-Marketing Association (Ontario)  
**Qualification(s):** Student who has competed a minimum of 10.0 credits with a minimum cumulative average of 70% who are members of O.A.C. and the Ag Ec & Biz Society. Selection will be based on a combination of academic achievement and a demonstrated interest in agri-marketing.

**Amount:** 1 award of $1,000

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The Guelph Chapter of the Canadian Federation of University Women (Canadian Federation of University Women/Guelph Scholarship) [10294]

The Guelph Chapter of the Canadian Federation of University Women provides this annual scholarship. Application is not required.

**Donor(s):** The Guelph Chapter of the Canadian Federation of University Women

**Qualification(s):** Female student registered in Year 3 in the Fall semester in either B.Eng., B.A. (College of Physical and Engineering Science) or B.Sc.(College of Physical and Engineering Science) who has the highest cumulative average. Preference will be given to a student who has graduated from a secondary school in Wellington County.

**Amount:** 1 award of $2,000

**CFRU Volunteer Award** [10215]

Apply to the CFRU Board of Governors by April 30.

**Donor(s):** Station Manager, CFRU

**Qualification(s):** Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU.

**Amount:** 2 awards of $250

Charles McGowan Memorial Prize [C0187]

Established in memory of the late Lieutenant Charles McGowan. Application is not required.

**Donor(s):** Charles McGowan Memorial Fund

**Qualification(s):** Outstanding graduating student in an O.A.C. degree program.

**Amount:** 1 award of $200

Class of ‘51 O.A.C. Leadership Prizes [C0063]

Established by Year ‘51 O.A.C., on the occasion of its 45th anniversary. At the discretion of the O.A.C. Awards Committee students may be selected before graduation. Application is not required.

**Donor(s):** Year ‘51 O.A.C.

**Qualification(s):** Students graduating from the degree program in a major in an O.A.C. department who have a 70% standing in the final year of study and who have demonstrated leadership in the College or University extracurricular activities.

**Amount:** 5 awards of $2,000

Class of ’67 O.A.C. Centennial Scholarship [10067]

Apply by May 15 to the O.A.C. Awards Office with a letter outlining participation in extracurricular activities in all branches of college life. Awarded in the fall semester.

**Donor(s):** Class of O.A.C. ’67

**Qualification(s):** Student majoring in an O.A.C. department who through activity in all branches of college life as well as scholastic achievement has made an outstanding contribution to the University.

**Amount:** 1 award of $2,000

Class of 1970 Scholarship [10424]

Established by the Silver Anniversary Celebrants to commemorate the 25th anniversary of the University Class of 1970. This award rotates among all six colleges on the main campus. The appropriate College Award Committee selects the candidate each Fall semester and the candidate is annonced each October. Application is not required.

**Donor(s):** Class 1970: 25th Reunion Gift

**Qualification(s):** Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’ Honours List.

**Amount:** 1 award of $900

Clayton and Dorothy Switzer Scholarships [10276]

Apply by May 15 to the OAC Dean’s Office (Awards) with a letter outlining how you have demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal. Awarded in the fall semester.

**Donor(s):** Clayton and Dorothy Switzer

**Qualification(s):** Students registered in a degree program offered by O.A.C. with a minimum of 10.0 credits completed, at least a 70% cumulative average and has demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal.

**Amount:** 1 award of $2,000

CME Distinguished Scholar Medal- Undergraduate (Highest Cumulative Average) [C0728]

This medal is presented to the student with the highest overall cumulative average. No application necessary.

**Donor(s):** Faculty, Staff, Alumni, and Students, College of Management and Economics

**Qualification(s):** Students who are graduating in June, or who have graduated in the previous two convocations from the College of Management and Economics.

**Amount:** 1 of a Medal

Coach Rudy Florio Football Scholarship [10737]

Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Mr. Rudy Florio

**Qualification(s):** Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $3,500

College of Arts Medal [C0383]

The College of Arts Medal is awarded in June to the student graduating from the College of Arts in the Spring or two previous convocations with the highest cumulative average. Application is not required.

**Donor(s):** Office of the Dean of Arts

**Qualification(s):** Awarded to the graduating student with the highest cumulative average.

**Amount:** 1 award of a Medal

College of Physical Engineering Science Academic Scholarship [10073]

Application is not required.

**Donor(s):** College of Physical and Engineering Science

**Qualification(s):** Offered in the Winter semester to students who have completed at least 15.0 course credits in a College of Physical and Engineering Science program and have excellent grades but have not received awards recently.

**Amount:** 2 awards of $250

College of Physical Engineering Science Graduation Prize [C0075]

The winner will be selected in May from all students who have completed the program in the previous twelve months. Application is not required. One award of $250 and a commemorative plaque.

**Donor(s):** College of Physical and Engineering Science

**Qualification(s):** Student graduating with the highest cumulative average from an honours B.Sc. program in a Physical and Engineering Science area.

**Amount:** 1 award of $250, 1 Commemorative plaque

College of Physical Engineering Science Scholarship [10076]

Awarded in the Fall semester to a student who has completed semester 6 in the previous Fall, Winter or Spring semesters and who is enrolled in Year 4 of a College of Physical and Engineering Science program. Application is not required.

**Donor(s):** College of Physical and Engineering Science

**Qualification(s):** Recipients will be selected on the basis of a high average (minimum 80% average required) in courses normally taken in Year 3.

**Amount:** 1 award of $250

Collins Barrow Award [10040]

Offered by Collins Barrow, a national firm of Chartered Accountants. Application is not required.

**Donor(s):** Collins Barrow Chartered Accountants

**Qualification(s):** Student with the highest grade in course ACCT*3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship will be given to the student with the highest cumulative average in their program.

**Amount:** 1 award of $500

Consul General of Belgium Prize for French House [10080]

The recipient will be selected by a committee consisting of the French House Program Director, a representative of East Residences, and the Head of French Studies. The award is presented by the Belgian Consul General. Application is not required.

**Donor(s):** Consul General of Belgium in Toronto

**Qualification(s):** Student resident in French House with good academic standing, who has made the greatest contribution to the program of the residence and to the knowledge of Francophone cultures.

**Amount:** 1 Book Prize
<table>
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<td>1 award of $450 plus an equal amount to the charitable organization of the recipient's choice</td>
<td>Full-time undergraduate students in any degree program offered by the College of Social and Applied Human Sciences and have completed at least 15 course credits with a minimum cumulative 70% average.</td>
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<td><strong>CSS Alumni Heritage Scholarship [I0616]</strong></td>
<td>2 awards of $1,000</td>
<td>Students registered in any Economics major or the Marketing Management major, who have completed between 7.5 and 12.5 credits, and are registered in the same majors for the subsequent fall semester with a minimum cumulative average of 80.0%.</td>
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<td><strong>D.C. Masters Prize in History [C0180]</strong></td>
<td>$500 payable after registration in semesters 7 and 8. Application is not required.</td>
<td>Student completing the honours program in History (specialized honours, combined honours, or major honours) with the highest cumulative average (minimum of 80%) in History courses at the 3000 and 4000 levels in the preceding academic year.</td>
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<td><strong>David F. Boyes Apiculture Scholarship [I0031]</strong></td>
<td>1 award of $500</td>
<td>Students registered in any Apiculture Field Laboratory. Application is not required.</td>
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<td><strong>David Murray Medal in Arts [C0071]</strong></td>
<td>1 award of $350, 1 Medal</td>
<td>Students registered in a degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.</td>
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<td><strong>Deans’ Scholarships [I0323]</strong></td>
<td>150 awards of $1,000</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.</td>
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<td><strong>Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [I0695]</strong></td>
<td>1 award of $1,350</td>
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<td><strong>Dr. R. J. Hilton Memorial Scholarship [I0678]</strong></td>
<td>1 award of $1,000</td>
<td>Students registered in any degree program offered by OAC who have completed one or more of the following courses with a minimum grade of 75% in each course completed: EDRD<em>3050 Agricultural Communication; EDRD</em>3120 Educational Communication; EDRD<em>3140 Organizational Communication; EDRD</em>3160 International Communication; ENVB*3000 Nature Interpretation.</td>
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<td><strong>Douglas M. Robinson Memorial Prize for Excellence in Communications [I0409]</strong></td>
<td>1 award of $450 plus an equal amount to the charitable organization of the recipient's choice</td>
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<td><strong>E.B. MacNaughton Convocation Prize [C0171]</strong></td>
<td>1 award of $1,000</td>
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<td><strong>Edmund C. Bovey Scholarship in Philosophy [I0113]</strong></td>
<td>1 award of $250, 1 Plaque-mounted medal</td>
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</table>
Edward Johnson Music Foundation Scholarship [I0608]
This scholarship supports the mission of the Edward Johnson Music Foundation to ensure that young people have access to the best musical education possible and to recognize the vital role of music in the fabric of our lives and communities. Selection will be based on musical and scholastic achievements and contributions to the University of Guelph communities through performance and music education. Apply to the School of Fine Art and Music Department by May 15 with a letter or C.V. listing musical contributions.
Donor(s): Edward Johnson Music Foundation
Qualification(s): Students in an Honours degree program with a declared major or minor in Music, who have completed a minimum of 10.0 credits towards their degree and who have a minimum cumulative average of 80% in MUSC courses.
Amount: 1 award of $500

Elaine Scott-Thomas Track and Field Scholarship [I0706]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletics Awards Committee. No application is necessary.
Donor(s): Dave Scott-Thomas CBS BSc '88
Qualification(s): Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

Embry Family Scholarship [I0736]
Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): Mr. John Embry
Qualification(s): Current member of a varsity team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $3,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [I0627]
Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): Ernest Kendall
Qualification(s): In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.
Amount: 2 awards of $1,350

Essay Prize in Music [I0357]
Essays should be submitted to the Director of the School of Fine Art and Music.
Donor(s): The Department of Music
Qualification(s): Student with at least Honours standing in the Honours Music Major or Minor program for the best research paper submitted in a 3000 or 4000 level music course (excluding papers written for MUSC*4401/2).
Amount: 1 award of $100

Essays in Theatre/Études Théâtrales Scholarship [I0115]
Application is not required.
Donor(s): The Department of Drama
Qualification(s): Student in a major or honours program in Drama with the highest cumulative average at the end of the 5th semester.
Amount: 1 Book prize

Excellence in International Development Studies Prize [C0617]
Awarded on the basis of academic excellence and demonstrated service to the community. Apply by letter (no more than two pages), outlining university and off-campus community service activities in Canada and abroad, to the attention of the Director of International Development Studies. Submit applications electronically by March 15th to ids@uoguelph.ca.
Donor(s): College of Social and Applied Human Sciences
Qualification(s): Students registered in their final year of studies in the Bachelor Arts program majoring in International Development who will be graduating in June, or who have graduated in the previous two convocations, with a minimum cumulative average of 80% in the previous two years of study.
Amount: 1 award of $1,000

F.A. Dahms Geography Alumni Scholarship [I0500]
Established in honour of the retirement of Dr. Fred Dahms, one of the founding members and former Chair (1968-74) of the Department of Geography, by alumni, colleagues and friends. The recipient will be selected on the basis of the highest cumulative average with the core courses of the Geography major. Application is not required.
Donor(s): Alumni, colleagues and friends of Dr. Fred Dahms, Department of Geography
Qualification(s): Students registered in the Geography major of the B.A.H. program who have completed a minimum of 15.0.
Amount: 1 award of $1,000

Faculty Prize in Classics [I0098]
The prizes are awarded to students selected by members of the Classics Section of the School of Languages and Literatures and by the Director of the School. Application is not required.
Donor(s): Dr. P. O'Cleirigh and Dr. A. Sherwood
Qualification(s): Students registered in any Classics program are eligible and the awards are based on aggregate performance in one or more courses totaling 1 credit at the 2000 level or above from Classical Studies, Greek or Latin.
Amount: 2 awards of $100

Football Endowment Fund (FEF) Scholarship [I0644]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): Various University of Guelph donors
Qualification(s): In-course student-athlete who is a current member of the Men's football team and has achieved a minimum 70% average in the previous academic year.
Amount: various awards of $750 to $3,500

Frances M. Stretton Scholarship [I0768]
Selection will be based on significant prior contributions to and experience in community-based service. Preference will be given to students working on a project related to nutrition, food safety or sustainability within the College. Apply to the CSAHS Awards Committee by May 15th with a summary letter outlining prior contributions to and experience in community-based service and how funds would be used to support participation in curriculum-embedded experiential learning opportunities in the following academic year.
Donor(s): Mrs. Frances M. Stretton
Qualification(s): Students registered full-time in any program offered by the College of Social and Applied Human Sciences with a minimum of 75% cumulative average who are participating in curriculum-embedded community-based experiential learning in the following academic year.
Amount: 1 award of $3,000

Frederick Vaughan Political Science Scholarship [I0513]
Established by Bernard Cummins, a '92 and '93 graduate of the College of Social Science, along with alumni and the friends and family of Frederick Vaughan, in honour of Professor Frederick Vaughan. Apply by letter to the Chair of the Department of Political Science by May 15. The letter should include a brief description of the student's activities, interests, and/or involvement with Canadian politics, Constitution, and/or court system as well as a comprehensive listing of his/her extracurricular activities.
Donor(s): Mr. Bernard Cummins
Qualification(s): Undergraduate student majoring in Political Science or Criminal Justice and Public Policy, who has competed between 12.5 and 15.0 credits with a minimum 77% cumulative average, with a particular emphasis on courses in the area of Canadian politics. The award winner will be selected on the basis of academic achievement and leadership ability as demonstrated through extracurricular involvement. Preference will be given to a student who has shown a particular interest in the Canadian constitution and the courts.
Amount: 1 award of $500

French Consul Prize [I0105]
Selection by Faculty in French Studies (School of Languages and Literatures).
Donor(s): French Consul
Qualification(s): Offered to a student for work in oral French.
Amount: 1 Book prize
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<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
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<tr>
<td><strong>Friends of Music Book Prize [I0218]</strong></td>
<td>Established by the Friends of Music of the University of Guelph. Application is not required. &lt;br&gt;<strong>Donor(s):</strong> Friends of Music, Chair, Department of Music &lt;br&gt;<strong>Qualification(s):</strong> Student who, in a given year, has completed at least 15.0 credits toward the honours B.A. with a major in Music and has the highest cumulative average in Music courses. &lt;br&gt;<strong>Amount:</strong> 1 (or more) Book prize(s)</td>
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<tr>
<td><strong>Friends of Music In-Course Scholarship [I0195]</strong></td>
<td>Established by the Friends of Music of the University of Guelph. Application is not required. &lt;br&gt;<strong>Donor(s):</strong> Friends of Music, Chair, Department of Music &lt;br&gt;<strong>Qualification(s):</strong> Student registered in any honours degree program with a major or minor in Music who has completed a minimum of 10.00 credits toward that degree with the highest average (above 70%) in Music courses. &lt;br&gt;<strong>Amount:</strong> 1 award of $600</td>
</tr>
<tr>
<td><strong>Friends of Music In-Course Scholarship in Applied Music [I0497]</strong></td>
<td>Established by the Friends of Music of the University of Guelph. Application is not required. &lt;br&gt;<strong>Donor(s):</strong> Friends of Music, Chair, Department of Music &lt;br&gt;<strong>Qualification(s):</strong> Student registered in any honours degree program with a major or minor in Music who has completed a minimum of 10.00 credits with a cumulative average of at least 70% and who has completed MUSC*3510 (Applied Music) with the highest grade above 80%. &lt;br&gt;<strong>Amount:</strong> 1 award of $600</td>
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<tr>
<td><strong>Geography Alumni Semester 4 Scholarship [I0368]</strong></td>
<td>Offered through the Alma Mater Fund by the Geography Alumni. Application is not required. &lt;br&gt;<strong>Donor(s):</strong> The Department of Geography &lt;br&gt;<strong>Qualification(s):</strong> Student who has completed 10.0 course credits in a major honours program in the Department of Geography. The scholarship will be awarded competitively in September of each year based on cumulative academic performance. &lt;br&gt;<strong>Amount:</strong> 1 award of $800</td>
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<tr>
<td><strong>Geography Alumni Semester 6 Scholarship [I0385]</strong></td>
<td>Offered through the Alma Mater Fund by the Geography Alumni. Application is not required. &lt;br&gt;<strong>Donor(s):</strong> Department of Geography &lt;br&gt;<strong>Qualification(s):</strong> Student who has completed 15.0 course credits in a major honours program in the Department of Geography. The scholarship will be awarded competitively in September of each year based on cumulative academic performance. &lt;br&gt;<strong>Amount:</strong> 1 award of $800</td>
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<tr>
<td><strong>George A. Gray O.A.C. ’51 Varsity Scholarships [I0487]</strong></td>
<td>Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester. &lt;br&gt;<strong>Donor(s):</strong> Mrs. George A. Gray &lt;br&gt;<strong>Qualification(s):</strong> In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year. &lt;br&gt;<strong>Amount:</strong> 2 awards of $1,250</td>
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<td><strong>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [I0677]</strong></td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required. &lt;br&gt;<strong>Donor(s):</strong> George Ames &lt;br&gt;<strong>Qualification(s):</strong> In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year. &lt;br&gt;<strong>Amount:</strong> 1 award of $3,500</td>
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<tr>
<td><strong>Gerd and Christel Baldauf Men’s Basketball Scholarship [I0639]</strong></td>
<td>Established by Christian Baldauf, BSc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required. &lt;br&gt;<strong>Donor(s):</strong> Dr. Christian Baldauf &lt;br&gt;<strong>Qualification(s):</strong> In-course student-athlete registered in the BSc. program who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year. &lt;br&gt;<strong>Amount:</strong> 1 award of $3,500</td>
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<tr>
<td><strong>German Consulate Prize [C0110]</strong></td>
<td>Presented in the Spring semester. &lt;br&gt;<strong>Donor(s):</strong> Consulate General of the Federal Republic of Germany &lt;br&gt;<strong>Qualification(s):</strong> Students who are graduating from an honours program in German Studies. &lt;br&gt;<strong>Amount:</strong> 3 awards of Book prizes</td>
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<tr>
<td><strong>Gloria Guthrie Memorial Music Prize [C0346]</strong></td>
<td>Application is not required. &lt;br&gt;<strong>Donor(s):</strong> Estate of Professor James R. Guthrie &lt;br&gt;<strong>Qualification(s):</strong> Student graduating in honours Music who has obtained the highest average above 80% in Music courses. &lt;br&gt;<strong>Amount:</strong> 1 award of $500</td>
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<tr>
<td><strong>Gold Medal in English [C0112]</strong></td>
<td>This gold medal is offered by the faculty of the English Section of the School of Languages and Performance Studies in English. Application is not required. &lt;br&gt;<strong>Donor(s):</strong> Faculty of the Department of English &lt;br&gt;<strong>Qualification(s):</strong> Graduating student who has achieved the highest standing in honours work in English (providing that the student's standing is at 80%) and completed at least 15.0 course credits of the program at the University of Guelph. &lt;br&gt;<strong>Amount:</strong> 1 award of a Gold medal</td>
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<tr>
<td><strong>Gonder Family Centre for Students with Disabilities Volunteer Scholarship [I0563]</strong></td>
<td>In recognition of the many students who volunteer their time and talents to assist their colleagues registered with the Centre for Students with Disabilities (CSD) and to encourage others to do so, Dr. John and Mrs. Katherine Gonder provide this award to a student who has volunteered in the CSD. The award will be made on the basis of the volunteer activities undertaken by the student at the CSD, one letter of reference, and a personal statement that outlines the time commitment and types of volunteer activities undertaken as well as an indication of how this was a valuable and rewarding volunteer experience. Apply by January 15th to the CSD (c/o Advisor to Students with Disabilities) by submitting above documentation. &lt;br&gt;<strong>Donor(s):</strong> Dr. John and Mrs. Katherine Gonder &lt;br&gt;<strong>Qualification(s):</strong> All students registered in the College of Social and Applied Human Sciences (CSAHS) that have completed between 10.0 and 15.0 course credits with a minimum 70% cumulative average, and have been involved as volunteers with the CSD. &lt;br&gt;<strong>Amount:</strong> 1 award of $900</td>
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<td><strong>Gonder Family Scholarship [I0580]</strong></td>
<td>Established in recognition of the diversity of student abilities and the varying challenges of undergraduate study. The recipient will be chosen on the basis of academic achievement with a preference to students enrolled in any CME major of the B.Comm. program. Application is not required. &lt;br&gt;<strong>Donor(s):</strong> Dr. John and Mrs. Katherine Gonder &lt;br&gt;<strong>Qualification(s):</strong> All students in the CME who have completed between 10.0 and 15.0 course credits with a minimum 70% cumulative average, and who have been identified with a learning disability through the University of Guelph’s Centre for Students with Disabilities. &lt;br&gt;<strong>Amount:</strong> 1 award of $900</td>
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<tr>
<td><strong>Gordon Ashton Statistics Scholarship [I0543]</strong></td>
<td>This scholarship is named in honour of Professor Gordon Ashton, a founding member of the Department of Mathematics and Statistics. A student may only be considered for this award once. Application is not required. &lt;br&gt;<strong>Donor(s):</strong> Department of Mathematics and Statistics (and retired) Professor Dixon More, C.P.E.S &lt;br&gt;<strong>Qualification(s):</strong> Third year student majoring in Statistics (i.e., one who has completed a minimum of 10.0 credits up to a maximum of 14.75 credits) who has a cumulative average of at least 80% and the highest average over 80% on a minimum of 4.0 credits in year 2 (i.e., while earning 5.0 to 9.75 credits). &lt;br&gt;<strong>Amount:</strong> 1 award of $750</td>
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<td>Governor General's Medal [C0044]</td>
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<td>Istituto Italiano di Cultura Prize [I0143]</td>
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<td>Gryphon Athletic Scholarships [I0631]</td>
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<td>J. Percy Smith Drama Prize [C0261]</td>
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<td>J.M. Bell Classics Scholarship [I0204]</td>
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<td>Gryphon Creative Arts Association, Gordon Couling Scholarship [I0117]</td>
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<td>J.W. Skinner Honours Scholarship in Social Science [I0259]</td>
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<td>Highdale Farms Scholarship [I0348]</td>
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<td>J.W. Skinner Medal in Social Science [C0260]</td>
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<td>International Development Studies Prizes [C0630]</td>
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<td>Jack and Lillian MacDonald Scholarship [E0379]</td>
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<td>International Undergraduate Scholarship [I0577]</td>
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<td>Jack Madden Medal in Economic History [C0173]</td>
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<td>International Student Organization (ISO)</td>
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<td>Last Revision: Oct. 19, 2012</td>
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<td>Scholarship Name</td>
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<tr>
<td>Jakob Amstutz Prize [C0407]</td>
<td>Guelph Philosophical Society</td>
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<tr>
<td>James L. Mottin Prize for Academic and Extracurricular Excellence [C0344]</td>
<td>Provided by the Department of Psychology to recognize its nominee for the Winegard Medal. Apply to the Department of Psychology Undergraduate Academic Counsellor by January 15th, including a list of extracurricular activities.</td>
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<tr>
<td>Joanna Bartlett Boehnert Memorial Prize in Women's Studies [C0502]</td>
<td>Established by family, friends and colleagues of the late Dr. Joanna Boehnert, a professor in the Department of Psychology (1968-2001) who established the Guelph Women's Studies program in 1980 and served as the program's coordinator for 14 years. Application is not required.</td>
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<tr>
<td>John A. Archibald Memorial Scholarship [10014]</td>
<td>Awarded in memory of John A. Archibald, former Director of the Horticultural Research Institute of Ontario. Apply by May 15 to the OAC Dean's Office (Awards) with a letter listing courses taken in Land Resource Science along with an outline of your participation in any extracurricular activities.</td>
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<tr>
<td>John Burton Scholarship [10642]</td>
<td>Established by Dr. John Burton, BSA 1962, a former faculty member in the Department of Animal and Poultry Science. Selection will be based on involvement with and contribution to the horse industry, future career aspirations in the horse industry sector and participation in community activities. Preference will be given to student who have demonstrated leadership ability within the student body. Apply by May 15 to the OAC Awards Office with a letter of no more than two-pages, outlining involvement with and contributions to the horse industry, career aspirations, and extracurricular involvements. Awarded in the fall semester.</td>
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<tr>
<td>John Deere Foundation of Canada Scholarship [10516]</td>
<td>Established through the generosity of The John Deere Foundation of Canada to recognize academic excellence. Application is not required.</td>
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<tr>
<td>John F. Melby Honours Thesis Prize [C0189]</td>
<td>Established in honour of Dr. John Melby, the first Chair of the Department of Political Science. Selection will be made on the highest combined average between Honours Political Science Research I and II - POLS<em>4970 and POLS</em>4980. Application is not required.</td>
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<tr>
<td>John Kennet Galbraith Scholarship in Economics [10108]</td>
<td>Selection will be based on the highest combined average in Economics (ECON) courses. No application necessary.</td>
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<tr>
<td>John Vanderkamp Memorial Scholarship in Economics [10525]</td>
<td>Provided by the family, friends and colleagues of the late Dr. John Vanderkamp, former Dean of the College of Social Science (1981-91) and Chair of the Department of Economics (1971-1980). Application is not required.</td>
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<tr>
<td>Kelly Bertrand Cross Country Scholarship [10684]</td>
<td>The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.</td>
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<tr>
<td>Ken and Marilyn Murray Scholarship [10734]</td>
<td>Dr. Kenneth G. Murray C.M., OAC BSA ’50 and Honourary Doctor of Laws ’96, and Mrs. Marilyn C. Murray, Mac B.HSc ’55, established this scholarship. Selection will be based on significant prior contributions to and experience in community-based service. Apply to the CSAHS Awards Committee by May 15th with a summary letter outlining prior contributions to and experience in community-based service, and how funds would be used to support participation in curriculum-embedded experiential learning opportunities in the following academic year.</td>
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</table>
Kenneth W. Hammond Prize [I0045]
The evaluation of the student will be based on the final essay in the "Environmental Perspectives and Human Choice: 5000 Days" course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

Donor(s): Kenneth W. Hammond
Qualification(s): Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.
Amount: 1 award of $1,000

Kevin Durie Memorial Scholarship [I0653]
Established in memory of Kevin Durie, BA ‘93, by his family and friends. Selection will be based on demonstration of outstanding service as a Residence Life staff member and volunteer. Application by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

Donor(s): Faculty, students and staff of the Philosophy Department
Qualification(s): Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.
Amount: 1 award of $1,000

Kip Hunter Prize [I0139]
For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

Donor(s): Participants in the Philosophy Department
Qualification(s): Students who have best demonstrated an understanding of the world's resource situation and its proper use by humankind.
Amount: 1 Book prize

Lambda Foundation Scholarship in LBGT Studies [I0591]
This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a student only once. Projects must have been completed or research proposals accepted within the past calendar year. Apply to the Dean of Arts by December 15th including the research proposal or completed project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.

Donor(s): Lambda Foundation and other donors
Qualification(s): Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.
Amount: 1 award of $1,000

Lange and Prokpicak Chemistry Scholarship [I0528]
This scholarship was established by Professor Gordon L. Lange, Professor Joe M. Prokpicak, friends and colleagues. Professors Gordon L. Lange and Joe M. Prokpicak were valued members of the chemistry Faculty who retired in 2001. Their excellence in teaching was recognized within the university and nationwide, winning them a total of eleven teaching awards. This scholarship will be awarded to the student with the highest average grade in CHEM*1040, 1050 and 2700. Application is not required.

Donor(s): Professor Gordon L. Lange, Professor Joe M. Prokpicak and friends and colleagues
Qualification(s): Student registered in any program offered by C.P.E.S. who has completed CHEM*1040, CHEM*1050, CHEM*2700 and has completed a minimum of 10.0 credits up to a maximum of 14.75 credits.
Amount: 1 award of $1,000

Larry Pearson Men’s Volleyball Athletic Scholarships [I0618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Larry Pearson
Qualification(s): In-course student-athlete who is a current member of the men's varsity volleyball team and has achieved a minimum 70% average in the previous academic year.
Amount: several awards up to $3,500

Latifpour-Keparoutis Family Varsity Swim Team Scholarship [I0732]
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student-athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Maryam Latifpour-Keparoutis
Qualification(s): Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,200

Le Prix Leopold Senghor [I0254]
Donated by the Honorary Consul for Senegal is awarded in even-numbered years. The recipient will be selected on the basis of performance in the course FREN*4290 with recommendation from the Director of the School of Languages and Literatures. Application is not required.

Donor(s): Department of Languages
Qualification(s): Student with good academic standing who has achieved excellence in the study of francophone African literatures, and in particular the literature of Senegal.
Amount: 1 award of $500

Leibniz/Newtown Scholarship [I0156]
Established in honour of two founding fathers of calculus. Awarded in the Fall semester.

Donor(s): The Department of Mathematics and Statistics
Qualification(s): A second year student majoring in mathematics or statistics (i.e. one who has completed a minimum of 5 credits up to a maximum of 9.75 credits) who has a cumulative average of at least 80% and the highest grades over 80% in MATH*1200 and MATH*1210. A student may be considered for this award only once.
Amount: 1 award of $500

Leonard Conolly Exchange Student Scholarship [I0446]
Established by students, faculty, staff and friends to honour Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

Donor(s): Students, staff, faculty and friends of Dr. Leonard Conolly
Qualification(s): Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).
Amount: 1 award of $1,000

Lloyd Dorr Memorial Hockey Scholarship [I0708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Family and Friends of the late Lloyd Dorr
Qualification(s): Current member of the men's varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,000
Marion McKenzie Scholarships for Outstanding Achievement in History [I0470]
These prizes have been established in memory of Marion McKenzie (1905-1994), a teacher who had a love of learning and a continuing curiosity about the world both past and present. These are awarded to the top student in each of the required core courses in the History program (HIST*1010, HIST*2450, HIST*2602). Application is not required.

**Donor(s):** TBA

**Qualification(s):** The recipient for HIST*1010 must have completed more than 5.0 credits; the recipient for HIST*2450, no more than 10.0 credits and be in the history program; and the recipient for HIST*2602, no more than 10.0 credits.

**Amount:** 3 awards of $400

Marlene Pike Memorial Scholarship [I0192]
Provided by the family and friends of Marlene Pike. Application is not required.

**Donor(s):** The family and friends of the late Marlene Pike

**Qualification(s):** Student majoring in Studio Art who has completed 12.50 credits, including SART*1300 Sculpture II and who is judged to have made an outstanding contribution in sculpture classes as manifested in the quality of work produced as well as in the effort expended and promise shown.

**Amount:** 1 award of $400

Mary Alice & Marion Munn Memorial Entrance Scholarship [I0418]
Established by Dr. John Munn in memory of his mother Mary Alice (Harris) Munn, who for more than 50 years sang, played, taught, led choirs, and instilled her love of music in the Ripley and Kincardine area, and his sister Marion Catherine Munn, who followed her mother's example as a singer and choir leader. The scholarships will be awarded to the student who best combines excellent potential in the area of vocal studies with involvement in extra-curricular music activities, particularly choir or other forms of vocal performance. Eligible students will be contacted by the School of Fine Art and Music by mid-August to schedule a live audition which will be held at the beginning of the fall semester. In the event of a tie, preference will be given to the applicant who has the highest average in music courses.

**Donor(s):** Dr. John Munn

**Qualification(s):** Students registered in a major or minor in Music who have completed a minimum of 5.0 credits, have successfully completed MUSC*1510 in vocal studies and are pre-registered in MUSC*2500.

**Amount:** 1 award of $2,500

Mathematics Graduation Prize [C0182]
Awarded at Summer Convocation. Application is not required. One award of $250 and a commemorative plaque.

**Donor(s):** Faculty members, who will be anonymous, through the College of Physical Science and Engineering Expendable Scholarship Fund

**Qualification(s):** The graduating student who has majored in mathematics and who in the past year has graduated from an honours degree program with the highest cumulative average over 80%.

**Amount:** 1 award of $250, 1 Commemorative plaque

McLean Scholarships in English [I0188]
These scholarships are offered in memory of Prof. Ernest Cyrus McLean, a member of O.A.C. from 1921 to 1960 and Chair of the Department of English from 1954 to 1960. Application is not required.

**Donor(s):** Anonymous

**Qualification(s):** Students in a B.A. program in English who have completed semester 4 in the previous Spring, Fall or Winter semesters with a high academic standing. A cumulative 80% average in English courses is considered the minimum requirement.

**Amount:** 2 awards of $1,400

Men's Basketball Scholarships [I0638]
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Anonymous (Alumni)

**Qualification(s):** In-course student-athlete who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 4 awards of $2,500

Mentor Scholarship in Art History [I0799]
Established in recognition of Dr. Clifford Malcolm Brown and Dr. Claudia Persi Haines (Carleton University). The successful applicant will be selected based on highest cumulative average. No application is necessary.

**Donor(s):** Anonymous

**Qualification(s):** Students majoring in Art History who have completed a minimum of 12.0 credits.

**Amount:** 1 award of $1,000

Men's Soccer Alumni Scholarship [I0771]
Made possible by the generous contributions of Men's Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Paul Wombwell (on behalf of the Men's Soccer Alumni Committee)

**Qualification(s):** Current member of the Gryphon Men’s Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** several awards ranging in value from $1,000 to $3,500

Michael J.F. Tompkins Scholarship [I0341]
Offered by his family in memory of Michael Tompkins, Governor General’s Medallist 1990. Preference will be given to students who do not hold other Senate awards. The scholarship may be held once only. It is payable after registration in the student’s subsequent semester. Essays must be submitted by January 15th to the honours English advisor, together with an application form which is available from the honours English advisor.

**Donor(s):** Donnamarie Tompkins-Grace

**Qualification(s):** Student continuing in the honours English degree program at the University of Guelph who submits the best essay written in a 3000 or a 4000 level English Literature course.

**Amount:** 1 award of $1,000

Michael Scotcher Scholarships [I0253]
Application is by submission of a portfolio and statement outlining future interest and plans for the future in the field of the Office of the Director of the School of Fine Art and Music by November 1. Selection will be based on the quality of portfolio submission and the content of the statement outlining future interests and plans.

**Donor(s):** Dana Paramskas and the School of Fine Art and Music

**Qualification(s):** Students registered in the Studio Art majors of the Bachelor of Arts program who have completed a minimum of 2.5 credits in studio art courses with a minimum of 70% average in these courses.

**Amount:** 1 award of $700

Mordechai Rozanski History Scholarship [I0545]
Established by the Jean Rich Foundation in recognition of Dr. Rozanski’s tenure as president of the University of Guelph from 1993 to 2003. This scholarship will be awarded to the student with the highest cumulative average. Application is not required.

**Donor(s):** Jean Rich Foundation

**Qualification(s):** Students registered in the Bachelor of Arts program with a History major who have completed a minimum of 10.0 credits but no more than 14.75 credits.

**Amount:** 1 award of $6,000

Murdo MacKinnon Scholarship [I0169]
One or more scholarships given to students completing semesters 5, 6 or 7 during the Winter semester will be considered by the College Awards Committee. Application is not required.

**Donor(s):** The Murdo MacKinnon Scholarship Fund

**Qualification(s):** Students registered in an honours major program in the College of Arts in Music, Drama, Art History, Studio Arts, English, History, Philosophy, Languages and Literatures or French Studies with the highest cumulative average in his/her honour subject(s). Preference will be given to students who have done all of their work at the University of Guelph.

**Amount:** 1 award of $1,000

Nancy Stoten Honours Prize in French [I0411]
Provided by the parents, family and friends of Nancy Stoten, a former student in French Studies. Recipients of the Nancy Stoten Memorial Scholarship are not eligible for this prize. Application is not required.

**Donor(s):** The family and friends of Nancy Stoten

**Qualification(s):** Students enrolled in the French Studies who has achieved the highest average in the five best courses in French at the 3000 and 4000 level.

**Amount:** 1 award of $1,000

Last Revision: Oct. 19, 2012 2012-2013 Undergraduate Calendar
Nancy Stoten Memorial Scholarship [I0106]
Provided by the parents, family and friends of Nancy Stoten, a former student in French Studies. Application is not required.
Donor(s): Mr. Michael and Mrs. Jean Stoten
Qualification(s): Students enrolled in the French Studies with fewer than 15.50 credits who have completed, FREN*2020, FREN*2060 and FREN*2520. The student who has achieved the highest average calculated on the grades in the above courses will receive the award.
Amount: 1 award of $1,000

Nathan Max Goldman Choir Scholarships [I0774]
Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and/or the Chamber Choir. One award will be available to a student in each choir, and will be given to the candidate who best combines high vocal achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required as a recommendation by Choir Director will be made to the SOFAM Awards Committee.
Donor(s): Mrs. Anne Goldman and the family of Nathan Max Goldman
Qualification(s): Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and/or the Chamber Choir and have been a member of the University of Guelph Choirs for at least two years.
Amount: 2 awards of $1,000

Norma Bowen Memorial Scholarship in Psychology [I0154]
Established in memory of Norma Bowen, former faculty member in the Department of Psychology and herself a mature student. Preference will be given to mature applicants. Application not required.
Donor(s): The Bowen family, friends and faculty colleagues
Qualification(s): Students registered in a major offered by the Department of Psychology who have completed a minimum of 12.5 credits.
Amount: 1 award of $600

O.A.C. ’55 Scholarships [I0064]
Provided by the class of O.A.C. ’55. Recipients will have made an outstanding contribution to College life through academic proficiency and participation in extracurricular activities and can be considered to have done the most for the College, for fellow students and in their personal development. Apply by May 15 to the OAC Dean’s Office (Awards) with a letter outlining your participation in Class/College/University activities. Awarded in the fall semester.
Donor(s): O.A.C. ’55
Qualification(s): Students registered in any O.A.C. degree program or students registered in the B.ENG. program that have completed a minimum of 10.0 with at least a 70% cumulative average.
Amount: 1 award of $2,000

O.A.C. Centennial Graduate Prizes [C0209]
The Ontario Agricultural College celebrated its 100th Anniversary in 1974. Many organizations and companies associated with the agricultural industry provided funds in conjunction with the Centennial activities. Funds have been established in perpetuity as a permanent commemoration of the Centennial of the College. Apply to OAC Awards Office by April 1 with a letter outlining extracurricular activities. Selection will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the student's university career.
Donor(s): Dean, O.A.C.
Qualification(s): Students graduating from a degree program administered by the Ontario Agricultural College and who plan to pursue graduate studies in any department or school of the Ontario Agricultural College in the year of baccalaureate graduation. The fellowship will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the student's university career.
Amount: 1 award of $2,200

O.A.C. Students’ Federation Medal [C0217]
Application is not required.
Donor(s): O.A.C.
Qualification(s): Graduating student in an undergraduate degree program in a major in an O.A.C. department who has been an outstanding leader in student activities at the College level throughout his or her University career.
Amount: 1 award of a Medal

Oxford University Press Canada Drama Scholarship [I0177]
Application is not required.
Donor(s): Oxford University Press Canada
Qualification(s): Student registered in the Drama major or minor who completes semester level 4 in the Winter, Spring, or Fall with the highest cumulative average in Drama courses.
Amount: 1 Book prize

Printmaking Prize [I0239]
The recipient will be identified as the student judged to have made the outstanding academic contribution to the practice of printmaking during the semester. Application is not required.
Donor(s): Printmaking students and faculty of the Department of Fine Art
Qualification(s): All students currently enrolled in a printmaking course and are considered by the Printmaking Selection Committee of the School of Fine Art and Music to have fulfilled all workshop responsibilities.
Amount: various awards of up to $1,000

Priscilla and Stanford Reid Trust Prize [I0597]
Established in honour the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written about the history of Presbyterianism and/or the Reformed tradition. Application, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.
Donor(s): Priscilla and Stanford Reid Trust Fund
Qualification(s): Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.
Amount: 1 award of $500

Professional Staff Association Scholarship [I0628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 by sending an email to awards@registrar.uoguelph.ca and include the name of the family member of the Professional/Managerial Group of the University of Guelph. This award may be held more than once, however, not in consecutive years. Preference will be given to students of current or retired P.S.A. members.
Donor(s): Professional Staff Association
Qualification(s): Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University, and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.
Amount: 1 award of $1,500

Professor Victor J. Matthews Memorial Prize in Classics [C0681]
Established in memory of Dr. Victor J. Matthews, a distinguished teacher of Classics for almost 40 years and varsity cross-country team head coach. This award is given to the student with the highest cumulative average in 4.0 credits of courses taken in Classical Studies, Greek or Latin beyond the 2000 level. Application not required.
Donor(s): Family and friends of Professor Victor J. Matthews
Qualification(s): Students graduating with a Major in Classical Studies or Classical Languages with a minimum average of 80% in 4.0 credits of Classical Studies, Greek or Latin courses beyond the 2000 level.
Amount: 1 award of $500

Professor Victor Matthews Track and Field Scholarships [I0707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.
Donor(s): Various Donors
Qualification(s): Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: up to 10 $300 each

Psychology Core and Methodology Scholarship [I0345]
Provided by the Department of Psychology. Application is not required.
Donor(s): The Department of Psychology
Qualification(s): Student enrolled in the B.A. honours program or the honours specialization in the B.Sc. program majoring in Psychology who has completed PSYC*2010 and PSYC*2360 and the Psychology core course requirements.
Amount: 1 award of $200
IX. Scholarships and Other Awards, Bachelor of Arts

Psychology Honours Thesis Prize [I0343]
Provided by the Department of Psychology. The winning thesis is selected from nominations by thesis supervisors. Application is not required.

Donor(s): The Department of Psychology
Qualification(s): Student enrolled in the B.A. program in Psychology having the highest cumulative specialization average after completing at least 15.0 course credits, including those prerequisite courses associated with the honours thesis PSYC*3371 and PSYC*3372.

Amount: 1 award of $200

Psychology Senior Honours Scholarship [I0342]
provided by the Department of Psychology. Award may be held once only. Application is not required.

Donor(s): The Department of Psychology
Qualification(s): Student majoring in statistics in year three (i.e. one who has completed a minimum of 10.00 credits up to a maximum of 14.75 credits) who has a cumulative average of at least 80% and the highest grades over 80% in STAT*2040 and STAT*2050 or equivalent. A student may be considered for this award once only.

Amount: 1 award of $500

R.A. Fisher Statistics Scholarship [I0102]
Established to honour one of the founding fathers of statistics. Awarded in the Fall semester. Not tenable with the Year 3 Statistics Scholarship. Application is not required.

Donor(s): Faculty and students of the Department of Mathematics and Statistics
Qualification(s): Student majoring in statistics in year three (i.e. one who has completed a minimum of 10.00 credits up to a maximum of 14.75 credits) who has a cumulative average of at least 80% and the highest grades over 80% in STAT*2040 and STAT*2050 or equivalent. A student may be considered for this award once only.

Amount: 1 award of $900

R.C. Moffatt Memorial Scholarship in Mathematics or Statistics [I0536]
This scholarship was established by the Estate of Professor R.C. Moffatt. A student may be considered for this award in both third and fourth years. This award is not tenable with any other Department of Mathematics or Statistics scholarships. Application is not required.

Donor(s): Estate of Professor R.C. Moffatt
Qualification(s): Student in year 3 or 4 (i.e., who has completed a minimum of 10.00 credits up to a maximum of 19.75 credits) enrolled as a statistics or mathematics major. The recipient will be selected on the basis of a high cumulative average over 80%.

Amount: 1 award of $1,000

Rachel Cliff Scholarship [I0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Ronald & Nancy Cliff
Qualification(s): Current member of the Women’s Middle Distance Team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

Amount: 1 award of $1,500

Ralph and Edith Kidd Memorial Scholarship in Music [I0463]
Established by the Friends of Music of the University of Guelph in recognition of Ralph and Edith Kidd, who were responsible for establishing the Thursday at Noon concert series in 1968. Application is not required.

Donor(s): Friends of Music
Qualification(s): Student registered in the Honours B.A. or other honours degree program with either a major or a minor in Music, who has completed at least 15.00 credits and who has the highest average (above 70%) in Music courses.

Amount: 1 award of $500

Ronald Hinch CJPP Scholarship [I0755]
Established in honour of Dr. Ronald Hinch, a former faculty member in the Department of Sociology and Anthropology and the Area Coordinator for the Criminal Justice and Public Policy project. The recipient will be selected based on highest academic standing in these six required courses. No application is required.

Donor(s): Donors towards the Dr. Ronald Hinch CJPP Fund
Qualification(s): Students registered in the B.A. program with a major in Criminal Justice and Public Policy, who have completed the six required courses (POL*1400, POL*2300, POL*2250, SOC*1500, SOAN*2120 and SOC*2700) with a minimum 70% cumulative average in these courses.

Amount: 1 award of $1,000

Russell Athletic Scholarships [I0722]
The recipients will be selected based on demonstrated leadership qualities and contributions to the team. Coaches will nominate students to the Athletic Awards Committee. No application necessary.

Donor(s): H.D. Brown Enterprises Ltd.
Qualification(s): Current members of a University of Guelph Varsity Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

Amount: 4 awards of $2,500

Ruth and Eber Pollard Scholarship in Canadian History [I0362]
Provided by the Guelph Historical Society in recognition of Ruth and Eber Pollard’s contribution as President and Vice-President, respectively, of the Society from 1973 to 1993. Application is not required.

Donor(s): The Guelph Historical Society
Qualification(s): The award is for the best essay presented by a student in HIST*4470 or HIST*4970 in Canadian History, particularly its local dimension.

Amount: 1 award of $1,000

Ruth and Eber Pollard Scholarship in Canadian History [I0576]
Established by Ruth and Eber Pollard, former President and Treasurer, respectively, of the Guelph Historical Society during the years 1972 to 1993. This award will be provided to the student who demonstrates a passion for Canadian History and ongoing participation in exercise, wellness, or athletics. Apply by, May 15, to the department of History with a letter of no more than two pages outlining academic credentials in History and ongoing commitment to exercise and wellness.

Donor(s): Mr. Eber and Mrs. Ruth Pollard
Qualification(s): Students majoring in History with a minimum cumulative program average of 80% who have completed a minimum of 5.0 course credits.

Amount: 1 award of $1,000

Samuel and Saidye Bronfman Family Foundation Printmaking Prize [I0035]
The prize-winning print will become part of the Print Study Collection. Application is not required.

Donor(s): From the Samuel and Saidye Bronfman Family Foundation
Qualification(s): Students enrolled in a printmaking course at any level who produces the most outstanding print during the semester.

Amount: 3 awards of $200

Sandbox Software Solutions Scholarship in Computing Sciences [I0733]
The scholarship will be awarded to the eligible student with the highest cumulative average. Preference will be given to female students. Application is not required.

Donor(s): Sandbox Software Solutions Inc.
Qualification(s): Full time students registered in the Bachelor of Computing degree program or the Information Systems and Human Behaviour major of the Bachelor of Arts degree program who have completed at least 10.0 credits with a minimum cumulative average of 70%.

Amount: 1 award of $1,000

Second Year Mathematics and Statistics Scholarship [I0739]
Selection will be made on the highest combined grades in MATH 1200 and MATH 1210. This award may only be held once. Application is not required.

Donor(s): Anonymous
Qualification(s): Full time BA or BSc students registered in a major offered by the Department of Mathematics and Statistics who have completed between 5.0 and 9.75 credits with a minimum cumulative average of 75% and have completed MATH 1200 and MATH 1210 with grades over 80%.

Amount: 4 awards of $500

Last Revision: Oct. 19, 2012
Society of Management Accountants of Ontario Scholarship [C0268]
The scholarship will be awarded at summer convocation. Application is not required. One award of $500 and a free course enrolment in the first complete CMA subject enrolled in the Society's program.

Donor(s): Society of Management Accountants, Grand River Chapter
Qualification(s): Full-time student graduating from B.Com., B.A. (minor in Business Administration), or B.Sc. (minor in Business Administration), or B.Sc.(Agri.) (major in Agriculture Business or Food Agriculture and Resource Economics), programs. Student with the highest average in the 2 courses Financial Accounting ACCT*2220 and Intermediate Accounting ACCT*3330.
Amount: 1 award of $500, and a free course enrolment in the first complete CMA subject enrolled in the Society's program.

Sociology & Anthropology Memorial Scholarship [I0632]
Established by the Department in memory of deceased faculty, staff and retirees. This tribute began in memory of Helen Constanza, a faculty member who passed away in 1973. The selection will be made on the basis of highest cumulative average. Application is not required.

Donor(s): Members of the Department of Sociology & Anthropology
Qualification(s): Full-time students registered in an honours major offered by the Department of Sociology & Anthropology who have completed between 10.0 and 12.5 credits with a minimum 80% cumulative average.
Amount: 1 award of $1,000

Sociology & Anthropology Retiree Tribute Prize [C0633]
Established by the Department to honour retiring members of the department. This tribute began with Samuel Sidlofsky who retired in 1991, and now also honours Wayne Thompson, retired in 1992, E.A. (Nora) Cebotarev, a 1993 retiree and Ted Hadwen, who retired in 1994. Apply by April 1 to the Department of Sociology and Anthropology Awards Committee Chair with a resume and letter outlining service involvements.

Donor(s): Members of the Department of Sociology & Anthropology
Qualification(s): Students that graduated in the previous fall or winter or will be graduating in the summer from an honours major in Sociology or Anthropology with a minimum 80% cumulative average.
Amount: 1 award of $1,000

Spanish Embassy Prizes [C0269]
Application is not required.

Donor(s): The Spanish Embassy
Qualification(s): Most outstanding graduating students in Spanish. Academic standing will be used to determine the recipient.
Amount: 2 awards of Book prizes

Sprung Family Men’s Basketball Scholarship [I0672]
Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. Timothy Sprung
Qualification(s): In-course student-athlete who is a current member of the Men’s basketball team and has achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $3,500

Statistics Graduation Prize [C0508]
Awarded at Summer Convocation. Application is not required. One award of $250 and a commemorative plaque.

Donor(s): College of Physical and Engineering Science
Qualification(s): The graduating student who has majored in statistics and who in the past year has graduated from an honours degree program with the highest cumulative average over 80%.
Amount: 1 award of $250, 1 Commemorative plaque

Stephanie Wilken Volunteer Scholarship [I0449]
Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to Student Financial Services with letter indicating the kind and extent of volunteer activities at the Wellness Centre by October 1. Selection committee is the Senate Committee on Awards on the recommendation of the Student Wellness Educator at the Wellness Centre.

Donor(s): Bev and Darlene Wilken
Qualification(s): Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre.
Amount: 1 award of $1,000

Swiss Embassy Prizes [C0275]
Offered by the Swiss Consulate. Application is not required.

Donor(s): Mr. H.W. Gasser, Swiss Embassy of Ottawa
Qualification(s): Outstanding honour students in French, German and Italian at the end of the 8th semester.
Amount: 3 awards of Book prizes

T.K. Warley Agrifood Policy Prize [I0212]
Established by Prof. T.K. Warley, former Chair of the Department of Food Agriculture and Resource Economics and a faculty member of the Ontario Agricultural College from 1970 to 1991. Application is not required.

Donor(s): Professor T.K. Warley
Qualification(s): Student providing the best term paper written on a public policy issue relating to the agrifood system or rural society in courses such as AGEC*3030 Price and Production Analysis, AGEC*4000 Agricultural and Food Policy, and AGEIC*4720 Special Study in Food Agriculture and Resource Economics.
Amount: 1 award of $500

Ted Newton Memorial Scholarship [I0198]
Established in honour of Professor Ted Newton, the founding chair of the Department of Mathematics and Statistics. Awarded in the Fall semester. Application is not required.

Donor(s): Family, friends and colleagues of Dr. T.D. (Ted) Newton
Qualification(s): Student majoring in mathematics or statistics in year 2 (i.e. one who has completed a minimum of 5.0 credits up to a maximum of 9.75 credits) who has the highest average over 80% on a minimum of 4.0 credits in year 1 (i.e., while the first 4.0 to 4.75 credits are in progress. A student may be considered for this award once only.
Amount: 1 award of $1,500

Thomas H. Peters Scholarship [I0233]
Application is not required.

Donor(s): Friends and associates of Thomas H. Peters
Qualification(s): Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP*2280, SOIL*3200 ), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.
Amount: 1 award of $250

Tom Mooney Scholarship [I0709]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Current member of the varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $1,000 to $3,500

Toronto District Beekeeper’s Association Scholarship [I0285]
A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application is not required.

Donor(s): Mr. Jack Robinson
Qualification(s): The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.
Amount: 1 award of $500

Tucker Scholarship for Women in Mathematics and Statistics [I0483]

Donor(s): Emma Tucker, B.Sc. ’96
Qualification(s): Female full-time mathematics or statistics major with a minimum cumulative average of 80% and completion of a minimum of 10.00 credits. Preference will be given to a student who has contributed to student life within the department.
Amount: 1 award of $500
United Steelworkers Local 4120 Scholarship [I0293]

Apply to Student Financial Services by January 31 and provide the name of the USWA member and relationship to the applicant. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class standing in his or her previous full-time semester.

Donor(s): United Steelworkers LU 4120
Qualification(s): Student who is a member of United Steelworkers LU 4120, who is entering semester 2, 3, or 4 of a degree or diploma program in the Winter semester with a minimum 70% cumulative average.
Amount: 1 award of $1,000

University of Guelph Alumni Legacy Scholarship [I0735]

Funded through donations made to the University of Guelph Alumni Memorial Fund in memory of deceased alumni. The recipient will be selected based on academic achievement and volunteer contributions to the University of Guelph community. Apply to Student Financial Services by May 15 with a cover letter indicating name, degree and year of graduation of alumna/alumnus relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.

Donor(s): Various donors c/o University of Guelph Alumni Association Memorial Fund
Qualification(s): Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with a minimum cumulative average of 75% and demonstrated volunteer leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumna/us of the University of Guelph or its founding colleges.
Amount: 1 award of $1,000

Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]

Selection will be made on the basis of participation in university activities and in the student's home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

Donor(s): Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family
Qualification(s): Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.
Amount: 2 awards of $400

W.C. Winegard Medal [C0311]

The W.C. Winegard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

Donor(s): The Board of Governors of the University
Qualification(s): Graduating student who excels both academically and in extracurricular activities.
Amount: 1 award of a Gold medal

W.N. Vaughan Medal [C0299]

Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.

Donor(s): Friends of Walter N. Vaughan
Qualification(s): Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.
Amount: 1 award of a Medal

W.S. Reid Essay Prize [I0229]

In honour of W. S. Reid, Professor Emeritus. Application is not required.

Donor(s): Department of History
Qualification(s): Undergraduate student enrolled in the general orhonours program in History who has submitted the best essay for a 4000 level course in History.
Amount: 1 award of $200

W.S. Reid Undergraduate Thesis Prize [I0244]

In honour of W. S. Reid, Professor Emeritus. Application is not required.

Donor(s): Department of History
Qualification(s): Undergraduate student enrolled in the honours History program who submits the best paper for courses HIST*4470/HIST*4970 Special History Project Seminar I and II on a non-Canadian topic.
Amount: 1 award of $200

Wally Fraser Mathematics Scholarship [I0544]

This scholarship is named in honour of Professor Wally Fraser, a founding member of the Department of Mathematics and Statistics. A student may only be considered for this award once. Awarded in the Fall semester. Application is not required.

Donor(s): The Department of Mathematics and Statistics and (retired) Professor Dixon More, C.P.E.S.
Qualification(s): Third year student majoring in mathematics (i.e., one who has completed a minimum of 10.00 credits up to a maximum of 14.75 credits) who has a cumulative average of at least 80%, and the highest average over 80% in a minimum of 4.00 credits in year 2 (i.e., while earning 5.0 to 9.75 credits).
Amount: 1 award of $750

Warren Jestin Scholarship in Canadian Economic Policy [I0557]

Dr. Warren Jestin, a B.A. and M.A. economics graduate of the University of Guelph and a member of the University's Board of Governors from 1997 to 2003, provides this award to a student registered in an honours degree in either the B.A program with a major in Economics or the B.Comm program with a major in Management Economics in Industry and Finance. The award winner will have achieved the highest cumulative average across all economics policy courses taken. Application is not required.

Donor(s): Warren Jestin
Qualification(s): Full-time registered in BAH.ECON or BCOMM.MEIF that has completed a minimum of two credits in the 3000 and 4000 level courses oriented towards economic policy, has achieved a minimum average of 80% in those courses, and has completed at least 15.0 credits towards their degree completion.
Amount: 1 award of $600

Waterloo-Wellington CA Association Scholarship [I0367]

Provided by the Waterloo-Wellington Chartered Accountant's Association. Application is not required.

Donor(s): Waterloo-Wellington Chartered Accountants Association
Qualification(s): Student who achieves the highest academic standing in the course ACCT*3330, Intermediate Accounting.
Amount: 1 award of $100

William and Nona Heaslip Essay Prize [I0801]

The prize will be awarded to the paper that best exemplifies primary source or archival based research. In the event of a tie, the prize will be given to the student with the highest cumulative average. No application required. Professors teaching a 3000 or 4000 level History course will submit papers to the Chair of the History Department for consideration by the grade submission deadline for the course.

Donor(s): The William and Nona Heaslip Foundation
Qualification(s): Students registered in the Bachelor of Arts program, with a History major, who have completed or are currently registered in a 3000 or 4000 level history course and who have submitted an essay with a focus on rural history.
Amount: 1 award of $1,000

William Furlong Scholarship in Microeconomics [I0582]

The Department of Economics offers these scholarships in honour of Professor William Furlong, a long-term member of the Department of Economics and a leader in the scholarship of teaching principles of microeconomics, to the three students with the highest final grades in Introductory Microeconomics (ECON*1050) in the fall semester. Application is not required.

Donor(s): Colleagues & Friends of Dr. William Furlong
Qualification(s): Full-time students enrolled in Introductory Microeconomics (ECON*1050)
Amount: 3 awards of $200
William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships [10703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

Donor(s): Mrs. Irene McEwen
Qualification(s): Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [10634]
Established by Dr. William P. Weber, OVC ’59, football alumus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. William P. Weber
Qualification(s): In-course student-athlete who is a current member of the Men’s Football team and achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $2,500

Wilma Hollywood Memorial Scholarship [10509]
Established by the Department of Psychology, in honour of the late Wilma Hollywood, a long-serving staff member. Application is not required.

Donor(s): Department of Psychology
Qualification(s): Student majoring in Psychology in either the B.A. or B.Sc. program who has achieved the highest cumulative average in the core courses.
Amount: 1 award of $200

Year 3 Mathematics Scholarship [10506]
Awarded in the Fall semester. Application is not required.

Donor(s): The Department of Mathematics and Statistics
Qualification(s): Fourth year student majoring in mathematics (i.e., one who has completed a minimum of 15.00 credits up to a maximum of 19.75 credits) who has a cumulative average of at least 80%, and the highest average over 80% in a minimum of 4.00 credits in year 3 (i.e., while earning 10.0 to 14.75 credits). A student may be considered for this award only once.
Amount: 1 award of $750

Year 3 Statistics Scholarship [10507]
Awarded in the Fall semester. Application is not required.

Donor(s): The Department of Mathematics and Statistics
Qualification(s): Fourth year student majoring in statistics (i.e., one who has completed a minimum of 15.00 credits up to a maximum of 19.75 credits) who has a cumulative average of at least 80%, and the highest average over 80% in a minimum of 4.00 credits in year 3 (i.e., while earning 10.0 to 14.75 credits). A student may be considered for this award only once.
Amount: 1 award of $750

In-course Scholarships with Financial Need

3M Canada Scholarships [10564]
Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): 3M Canada Company
Qualification(s): Students entering Year 4 (i.e. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.
Amount: various award of up to $4,000

Agnes Yuen Leadership Scholarship [14401]
Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form along with a statement of up to 500 words outlining leadership and involvement in volunteer activities. Selection will be based on demonstrated exemplary leadership through involvement with on campus or off campus volunteer activities (student associations/charitable or non-profit organizations) as described in a statement. ACCESS AWARD

Donor(s): Mr. John and Mrs. Agnes Yuen with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in a program offered by the College of Management and Economics who have completed between 5.0 and 17.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,500

Alf and Mary Hales Undergraduate Scholarship in Political Science [14511]
Established by Alf Hales, B.Sc. ’34, Member of Parliament 1957-74 and his wife Mary Hales,D.H.E. ’32, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. The recipient will be the student with demonstrated financial need and the highest cumulative average in Political Science courses. ACCESS AWARD

Donor(s): Alf and Mary Hales with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in the B.A.H. program majoring in Political Science who have completed at least 15.0 credits. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Barbara A. Bowen Scholarship [14390]
Established by Barbara A. Bowen, MAC ’57. Preference will be given to students registered in Department of Family Relations and Nutrition. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): Barbara A. Bowen with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students who have a minimum 75% average and are registered in any degree program in the College of Social and Applied Human Science who have completed at least 15.0 credits. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $4,500

Beatrice Youngman Prize in Music [14378]
To honour Beatrice Youngman, the driving force of the Guelph Music Club for over twenty years, a former piano teacher, a volunteer and President of the club, and a recognized contributor to music and culture within Guelph, the Guelph Music Club, with the aid of the Ontario government’s OSOTF program, has provided this scholarship. Preference will be given to students majoring in Music in the BA program and the recipient will have achieved the highest cumulative average. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): The Guelph Music Club with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in a minor or major in Music, with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $2,000
### Brian Kenneth Howard Memorial Scholarship [I4548]
Established by Kenneth and Irene Howard in memory of their son, Brian Kenneth Howard. Awarded to a student assessed as having financial need with a preference given to students from York, Durham or Simcoe counties. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students may be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Kenneth and Irene Howard with matching funding through the Ontario Student Trust for Student Support program

**Qualification(s):** Student registered in any degree program with a minimum 75.0% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $2,700

### C.P.E.S. Dean's Scholarship - ACCESS [I4527]
Established with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. This award may be held once only. ACCESS AWARD.

**Donor(s):** Established by a number of industrial, commercial and public sector corporations with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need registered in any major program in C.P.E.S. in, or beyond, second year. A minimum 80% cumulative average is required. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $800

### City of Guelph 175th Anniversary Scholarship [I0515]
Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.

**Donor(s):** The Guelph Community Foundation

**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 70.0% cumulative average, demonstrated volunteer leadership on campus and/or in the community and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian citizens or permanent residents at the time of application.

**Amount:** 1 award of $2,000

### College of Arts Honours Scholarships [I4524]
Established by supporters of the College of Arts, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Numerous Donors with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need in an honours program in the College of Arts. A minimum cumulative average of 80% and registration in semester 5, 6 or 7 is required at the time of application. Awarded in semesters 7 or 8. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 5 awards of $500

### Earl B. MacNaughton C.P.E.S. ACCESS Scholarships [I4172]
Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical and Engineering Science, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Earl B. MacNaughton with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students currently registered in the final year of an honours program in the College of Physical and Engineering Science with high academic standing, demonstrated financial need, and who have completed a minimum of 15.0 credits. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,000

### Erin Demers Memorial Scholarship [I0406]
The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.

**Donor(s):** Family and friends of Erin Katrina Demers

**Qualification(s):** Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.

**Amount:** 1 award of $1,500

### Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [I4546]
Established by Ernest Kendall, O.A.C.; BSA 1932, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** Ernest Kendall with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students with demonstrated financial need who are members of the women's varsity basketball team and who have achieved a minimum 70% average in the winter semester. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

### Euclid-Hitachi Scholarships [I4171]
Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government’s OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500
Gerald and Mary Henley Rubio Scholarship [I4534]
With the assistance of the Ontario government's OSOTF program, this scholarship was established for an outstanding student majoring in English. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. The student with the greatest financial need will be selected. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** Professor Mary Henley Rubio and the late Gerald Rubio with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** B.A. students majoring in English, who have completed at least 5.0 credits, and have a cumulative average of at least 80%. If no students majoring in English are eligible, a student majoring in History may be selected using the same criteria. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $1,500

Gordon Ashton Scholarship [I4535]
Established in memory of Prof. Gordon Ashton, member of the Department of Physics and Mathematics (1956-1966) and the Department of Mathematics and Statistics (1966-1986), with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** C. Dixon More with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** All statistics majors who have completed a minimum of 10.00 credits with a cumulative average of at least 70% and who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $500

Graham Family Incentive Scholarship [I4506]
Provided by Harvey Graham (O.A.C. '39) with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7.

**Donor(s):** Harvey Graham O.A.C. '39 with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $4,000

Guelph Philosophical Society Scholarship [I4119]
Established by the Guelph Philosophical Society with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** The Guelph Philosophical Society with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with a major in Philosophy, in semesters 1 to 4, have a minimum cumulative average of 80% and have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $500

Jay Majithia Scholarship [I4518]
Provided to honour Professor Jay Majithia, in recognition of his support and leadership while a faculty member in the Department of Computing and Information Science, by Margaret Middleton, C.P.E.S. '80 with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7 and attach a letter stating research interest and/or involvement.

**Donor(s):** Mrs. Margaret L. Middleton with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Computer and Information Science students with demonstrated financial need who have a minimum cumulative program average of 70%. Preference will be given to eligible students who are applying for, or participating in, departmental research, including a special project or an independent study option. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $500

John Embry Family Scholarship [I4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7.

**Donor(s):** Mr. John Embry with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Student-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $3,500

Landoni Athletic Scholarship [I4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby.

**Donor(s):** Peter Landoni with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,000

Lin Coburn Memorial Scholarship [I4539]
Provided with the assistance of the Ontario government's OSOTF program, this award is for a B.A. student majoring in English who embodies and inspires a dedication for and a love of learning. Apply by letter (maximum 2 pages), expressing interest in the award and listing essays and/or other written material from courses competed in the program, along with a completed Financial Need Assessment Form, to Student Financial Services by October 7. Short-listed candidates will be contacted by SETS for copies of their academic portfolios. Students may hold this award only once.

**Donor(s):** Family, Friends, and Colleagues with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students enrolled in the English B.A.H. program who have completed at least 5.0 credits and not more than 10.0 credits, are currently registered in at least 1.5 credits in the S.E.T.S. and who were also enrolled in the previous Fall, Winter and/or Spring semesters. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of up to awards of $4,000

2012-2013 Undergraduate Calendar

IX. Scholarships and Other Awards, Bachelor of Arts

Last Revision: Oct. 19, 2012
Michael and Virginia Walsh Scholarship in Philosophy [I4529]
Established by Michael Walsh, BA '69, MA '70, PhD '93, and Virginia (Trimble) Walsh, BA '72 with the assistance of the Ontario government's OSOTF program. Apply by completing the completed Financial Need Assessment Form (N.A.F.) to Student Financial Services with a minimum 70% average who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Donor(s): F. Michael Walsh, BA '69, MA '70, PhD '93 and D. Virginia (Trimble) Walsh, BA '72 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Undergraduate B.A. student majoring in Philosophy, with demonstrated financial need, at or beyond semester 5, with a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,000

Nora Spence Memorial Scholarship [I4394]
This scholarship was created by George and Jane Spence in memory of their daughter Nora Spence, O.A.C. BSc.'06 with the aid of the Ontario government’s OTSS program. Selection will be based high academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

Donor(s): Jane and George Spence with matching funding through the Ontario Trust for Student Support program
Qualification(s): BSC students registered in a major offered by O.A.C. who have a minimum cumulative average of 75% and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Norman Farb Memorial Scholarship in Philosophy [I0741]
Created in memory of Mr. Norman Farb. Preference will be given, first, to Philosophy majors registered in semester one with a minimum admission average of 75% and second, to Philosophy majors in any semester. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form and include a statement that identifies you as a "mature" student applicant.

Donor(s): Gary Farb
Qualification(s): Students who entered the University as a “mature student applicant” who are registered in the Bachelor of Arts program with a minimum 75% cumulative average and who have demonstrated financial need.
Amount: 1 award of $1,000

R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [I0547]
Douglass (O.A.C. '39) and Kathleen (MAC '39) Kennedy met at a "hop" on campus in 1937 and later married. They established this scholarship to celebrate their time on campus and their 62 years of marriage. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy
Qualification(s): This scholarship will be awarded to a student in O.A.C. with high academic achievement and demonstrated financial need.
Amount: 1 award of $900

Residence Life Staff Scholarship [I0697]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.

Donor(s): Student Housing Services
Qualification(s): Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.
Amount: 2 awards of $500

Returning Student Residence Scholarship [I0696]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is an award conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.

Donor(s): Student Housing Services
Qualification(s): Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.
Amount: 3 awards of $500

Scottish Studies Foundation Scholarship [I4541]
Provided with the assistance of the Ontario government's OTSS program. The recipient will be selected on the basis of the number of and grades in the requisite courses listed as well as overall cumulative average to that point in the student's career. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) and attach an unofficial transcript. To be considered for this award, you must list it on your N.A.F. ACCESS AWARD

Donor(s): Scottish Studies Foundation and private donors with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students who have completed a minimum 10.0 credits and has taken or is taking HIST*2000 or HIST*2500, and at least one of the following: HIST*3030, HIST*3140, HIST*3530, HIST*4040, or HIST*4050. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $4,000

Shteryl and David Kerr Women's Varsity Ice Hockey Scholarship [E4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Select at 4th to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS AWARD

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student athlete who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent, and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: various awards of up to $3,500

Shteryl and David Kerr Women's Varsity Ice Hockey Scholarship [I4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of the women's varsity ice hockey team who is enrolled in an undergraduate program with a minimum 70% average or equivalent during the previous academic year as a student-athlete who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: various awards of up to $3,500
IX. Scholarships and Other Awards, Bachelor of Arts

**Studio Arts Specialized Studio Practice Scholarship [I4522]**

Established by supporters of the Studio Art program, with the assistance of the Ontario government’s OSOTF program to assist students with financial need to complete Specialized Studio Practice. Apply with a completed Financial Need Assessment Form by October 7. To be considered for this award, you must indicate it on your N.A.F. Eligible students will then be invited to submit a portfolio to the School of Fine Art and Music. This award may be held once only. Selection will be based on the student’s portfolio. ACCESS AWARD

**Donor(s):** Numerous Donors with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Studies with demonstrated financial need registered in SART*4850 Specialized Studio Practice I or SART*4860 Specialized Studio Practice II. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $400

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**Tara Lynn Giuliani Memorial Scholarship [I0375]**

In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7.

**Donor(s):** The Giuliani Family

**Qualification(s):** Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.

**Amount:** 1 varying amounts

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**Tony and Anne Arrell Scholarships [I0686]**

Tony Arrell, OAC Bsc (Agri) ’67 and Anne Arrell, MAC BHSC ’68 have established 20 in-course awards for students with financial need. Awards will be distributed so that all colleges are represented. Apply by October 7 with a completed Financial Need Assessment Form to Student Financial Services. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** Tony and Anne Arrell, Burgundy Asset Management

**Qualification(s):** Students registered in any degree program who have completed a minimum of 2.0 credits with a minimum 80% cumulative average and demonstrated financial need.

**Amount:** 20 awards of $5,000

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**University of Guelph Retiree Association Degree Scholarship [I0569]**

The University of Guelph Retiree Association established this $1,500 scholarship in 2007 to acknowledge in-course student achievement. The student having the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last two semesters of full-time studies will be chosen. Apply by May 15th to Student Financial Services with a letter indicating name of and relationship to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.

**Donor(s):** University of Guelph Retirees Association (U.G.R.A.)

**Qualification(s):** Students with a minimum 75% cumulative average registered in a degree program who are related to a retiree of the University of Guelph as child, grand child or great grand child.

**Amount:** 1 award of $1,500

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**W. F. Mitchell Athletic Scholarship [I4550]**

Established by the Mitchell Family, with the aid of the Ontario government’s OSOTF program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches must nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Access Award

**Donor(s):** The Mitchell Family with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students who are a member of a varsity team who has achieved a minimum 70% average in the previous academic year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

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**William & Nona Heaslip Scholarship [I0589]**

Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time (minimum 80% of a full course load) study. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** The William and Nona Heaslip Foundation

**Qualification(s):** Students that have completed 4.0 credits but no more than 6.0 credits in any degree program; are a Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financial need.

**Amount:** 2 awards of $15,000

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**Willson Woodside Memorial Scholarship [I4536]**

Established in memory of Willson Woodside, a founding member and former chair of the Department of Political Science, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.), a letter outlining involvement on campus or in the community, and one letter of reference from an individual addressing the applicant’s leadership ability to Student Financial Services by October 7. Preference will be given to students enrolled in a program involved in food supply or utilization, farmland conservation or woodlot management. ACCESS AWARD

**Donor(s):** Department of Political Science with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in the Political Science major of the B.A.H. program who have completed at least 10.0 credits and have a minimum cumulative average of 70%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $500

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**Yeandle Family Scholarships [I3546]**

Provided by the Estate of Audrey Yeandle, a Mac’25 graduate and life-long supporter of the University, with the assistance of the Ontario government’s OSOTF program. Awards will be made on the basis of financial need and academic achievement. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** The Estate of Audrey Yeandle with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in a program in the College of Social and Applied Human Sciences with a minimum cumulative average of 70%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards up to $2,000

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**In-course Bursaries**

**Bette Stephenson Accessibility Bursary [I3054]**

In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student’s advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

**Donor(s):** University of Guelph

**Qualification(s):** Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.

**Amount:** 3 awards to a maximum of $1,500

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**Birks Family Foundation Bursary [I3002]**

Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Birks Family Foundation

**Qualification(s):** Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures.

**Amount:** 1 award of $1,000
Brinson Partners Inc. Bursaries [13526]
Brinson Partners Inc., with the assistance of the Ontario government’s OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.
Donor(s): Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Burnbrae Farms Bursaries [13525]
Established by Burnbrae Farms, with the assistance of the Ontario government's OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7. ACCESS AWARD.
Donor(s): Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Class of '72: 25th Reunion Bursaries [13512]
Established by the Class of '72: 25th Reunion Fund with the assistance of the Ontario government's OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.
Donor(s): Class of '72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $1,000

Class of O.A.C. '33 Bursaries [13531]
Established by the class of O.A.C. ’33 on the occasion of their 65th Anniversary, with the assistance of the Ontario government's OSOTF program to support students who wish to study full-time. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.
Donor(s): Class of 1933 (in honour of the late Prof. W.I.J. Squirrel) with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $900

Class of O.A.C. ’36 Bursaries [13501]
Established by the Class of O.A.C. ’36 with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): Class of 1936 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): An O.A.C. degree student enrolled in any degree program who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $900

Credit Valley Conservation Authority Foundation Bursary [13007]
Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
Donor(s): Credit Valley Conservation Authority Foundation
Qualification(s): Full-time student registered in B.A. Geography, B.Sc. Geographic Information Systems and Environmental Analysis, B.Sc. Engineering (Water Resource Engineering), B.Sc.(Agri) Agroecosystem Management or B.Sc.(Env.) Geography majors with demonstrated financial need. Preference will be given to a student who resides in a member municipality of the Credit Valley Authority Foundation.
Amount: 1 award of $500

David R. Leach Memorial Bursary [13534]
Provided in memory of David R. Leach by his family, with the assistance of the Ontario government’s OSOTF program. David entered O.A.C. in 1969 as a member of O.A.C. ’73 and graduated with a B.Sc. in Agriculture in 1974. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services and a letter from CSD confirming physical disability by October 7. ACCESS AWARD
Donor(s): Mrs Deborah Leach-Sartor with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate degree or diploma student who is physically disabled as determined by the Centre for students with Disabilities, has satisfactory academic standing and who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $750

Dr. J. L. Tennant Bursaries [13064]
Established by the estate of Dr. J. L. Tennant, O.A.C. B.S.A 1913. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
Donor(s): The Estate of Dr. J. L. Tennant
Qualification(s): Students registered in the Agricultural Economics major offered by the Department of FARE who have completed a minimum of 12.0 credits and have demonstrated financial need.
Amount: 2 awards of $1,500

Elizabeth Burton Bursaries [13563]
Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.
Donor(s): Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: Several awards of varying amounts

George and Margaret J. Miles Memorial Bursary [13544]
Established by the family to honour the memory of the parents, George and Margaret J. Miles, life long supporters of education. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter describing involvement in extra-curricular activities to Student Financial Services by October 7. ACCESS AWARD
Donor(s): Established by the Miles Family with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): All undergraduate arts and social science students with demonstrated financial need who are in or beyond semester 3 and have at least a 75% cumulative average in all courses completed to date are eligible to apply. Preference will be given to students who participate and provide leadership in extra-curricular or community activities (examples include student government, charitable organization, volunteer work, Big Brothers/Sisters, contributions to school and/or community, etc.). Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Last Revision: Oct. 19, 2012
Gryphon Investment Council Bursaries [13513]

Established by Gryphon Investment Council, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**ACCESS AWARD**

**Donor(s):** Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

Guelph Compassionate Health and Dental Bursary [13061]

This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.

**Donor(s):** Student Health and Dental Plan Reserve

**Qualification(s):** Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress.

**Amount:** Several to a maximum $1,500

Guelph Student Assistance ACCESS Bursaries [13556]

These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government’s OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**ACCESS AWARD**

**Donor(s):** Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** Several awards of varying amounts up to $1,000

Guelph Student Assistance Program [13056]

These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** Undergraduate Students

**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need.

**Amount:** Several awards of varying amounts up to $1,000

Gwen Karr Memorial Bursary [13101]

Mr. T.K.C. Karr, O.A.C. ’32, has provided an endowment fund to assist students in a degree or diploma program of the Ontario Agricultural College. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Mr. T.K.C. Karr, O.A.C. ’32

**Qualification(s):** O.A.C. students with demonstrated financial need.

**Amount:** Several varies

Helen Mahon Memorial Bursary [13063]

Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.

**Donor(s):** Family and Friends of Helen Mahon

**Qualification(s):** Students registered in any program who come from a family where one parent is deceased.

**Amount:** 1 award of $500

Howard and Myrtle Rogers Bursaries [13537]

Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**ACCESS AWARD**

**Donor(s):** The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 10 up to $2,000

International Emergency Medical Aid Assistance [13059]

The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.

**Donor(s):** University of Guelph

**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.

**Amount:** Several awards of varying amounts

International Student Bursaries [13090]

Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.

**Donor(s):** Mrs. Norma L. Valeriote

**Qualification(s):** Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.

**Amount:** Several of varying amounts

Irvine and Grace Black Memorial Bursary [13051]

Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women’s Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women’s Institute by October 7.

**Donor(s):** Family and friends of Irvine and Grace Black

**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women’s Institute.

**Amount:** 1 award of $500

Joan Weatherly Memorial Bursary [13065]

Established by the estate of Joan Weatherly, CSS BA ’82, a long-time employee of the University and Sociology graduate with a keen interest in the issues of mature female students. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter identifying admission status as a mature female student, if applicable. Preference will be given to mature-applicant status female students.

**Donor(s):** The Estate of Joan Weatherly

**Qualification(s):** Students registered in any degree program in the departments of Geography, Political Science, Psychology and Sociology & Anthropology with demonstrated financial need.

**Amount:** 1 award of $1,000
John & Margaret Van Loon Family Bursary [I3549]
Established on behalf of the Van Loon Family in honour of parents John & Margaret Van Loon. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Mr. Paul Van Loon and Mrs. Lauralene Van Loon

**Qualification(s):** Students registered in any program in the College of Biological Science or the College of Physical & Engineering Science who have completed a minimum of 2.5 credits. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,000

Marie Hardacre Bursary [I3548]
Established by Mrs. A. Marie Hardacre, MAC DHE 1930 for students in CSAHS with a preference to female students registered in the Department of Family Relations and Applied Nutrition. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Mrs. A. Marie Hardacre with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students registered in any academic program in the College of Social and Applied Human Sciences with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $4,500

O.A.C. '38 Lloyd Minshall Bursaries [I3529]
Established by O.A.C. '38 Alumni, with the assistance of the Ontario government's OSOTF program, to recognize the many contributions of Lloyd Minshall to his classmates and to O.A.C. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** O.A.C. '38 Alumni with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** O.A.C. undergraduate students with demonstrated financial need in semesters 5, 6, 7 or 8. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 4 awards of $1,800

O.A.C. '55 Access Bursaries [I3517]
Provided by the class of O.A.C. ’55 with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** O.A.C. Class of '55 with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students at any semester level in an O.A.C. degree program or students enrolled in the B.ENG. program with demonstrated financial need and a 60% minimum cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 6 awards of $500

O.A.C. '57 Bursaries [I3518]
Provided by the Class of O.A.C. ’57 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** O.A.C. ’57 and the O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** O.A.C. undergraduate degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 5 awards of $1,000

O.A.C. Alumni Foundation Access Bursaries [I3533]
Provided by the O.A.C. Alumni Foundation, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 3 awards of $500

Ontario Co-operatives R.P. Forshaw Bursary [I3013]
The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of a co-op or credit union.

**Donor(s):** The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw

**Qualification(s):** Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.

**Amount:** 1 award of $400

Ontario Grape Growers Bursary [I3033]
Offered by the Ontario Grape Growers Action Committee. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** The Ontario Grape Growers Action Committee

**Qualification(s):** Students with good academic standing in semesters 3 to 6 of a degree program or semesters 3 to 4 of a diploma program administered by O.A.C., and demonstrated need of financial assistance.

**Amount:** Several of various amounts
### Robert Auger Humanitarian Bursary [I3058]

This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.

**Donor(s):** Office of Registrarial Services  
**Qualification(s):** Students registered in a degree program.  
**Amount:** Several grocery vouchers or book vouchers

### Ron Scriver Memorial Bursary [I3547]

Established in memory of Dr. Ron Scriver (1946 - 2005) C.P.E.S. B.A. '76, to honour his outstanding 32-year career with the Ontario Universities’ Application Centre and his extensive involvement with colleagues throughout the University system. Preference will be given to students registered in the Bachelor of Computing Science Program. Apply with a Financial Need Assessment Form to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Family and Friends of Ron Scriver with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students registered in any program offered by C.P.E.S. with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 1 award of $1,500

### Scotiabank Bursaries [I3532]

Established by Scotiabank, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,500

### Shirley Edeane Bursaries [I3570]

These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Edeane, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Estate of Shirley E. Edeane & multiple donors with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** Several awards of varying amounts

### T.K. Warley Bursaries [I3510]

Established by O.A.C. Alumni Association, with the assistance of the Ontario government's OSOTF program, to recognize Professor T.K. Warley's significant contribution to the O.A.C. Alumni Foundation and to students through teaching and promotion/development of "Experience Agriculture". A degree student may receive this bursary twice. Apply by letter outlining extracurricular involvement and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** O.A.C. Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students with demonstrated financial need who are in semester 5 to 8 of any degree program within O.A.C. A minimum 65% is required, as is participation in student activities, governance, and/or college affairs. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,000

### University of Guelph Access Bursaries [I3522]

Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Alumni and Friend of the University of Guelph with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** Several awards of $500, Several awards of $2,000

### University of Guelph Alumni Association Access Bursaries [I3523]

Established by the University of Guelph Alumni Association, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,000

### University of Guelph Child Care Bursaries [I3053]

In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need.  
**Amount:** Several awards of up to $2,000

### University of Guelph International Bursary [I3048]

The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

**Donor(s):** University of Guelph  
**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.  
**Amount:** Several varies

### University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.  
**Donor(s):** University of Guelph  
**Qualification(s):** Ontario students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.  
**Amount:** Several awards ranging in value from $100 to $4,000

### University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I3047]

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.  
**Donor(s):** University of Guelph  
**Qualification(s):** Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.  
**Amount:** Several awards to a maximum of $500
### University Police Bursaries [L3019]
The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** The University Police  
**Qualification(s):** Full-time undergraduate with demonstrated financial need.  
**Amount:** Several of various amounts

### University Student Assistance Program [L3057]
These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).  
**Amount:** Several awards of various amounts to a maximum of $1,000

### In-course Travel Grants

#### A.E. Wardlaw Travel Grant [T0665]
Established by Mrs. Alta E. Wardlaw (nee Chapman), a 1912 student at Macdonald Institute. Selection will be based on the cost of the travel and the benefit it will bring to the student's program of study. Preference will be given to the student attending a professional conference/meeting. Apply by May 15 to the CSAHS Awards Committee by completing the CSAHS Awards Application and attach a letter describing the travel, the benefit it will bring to your program and an overall travel budget. This award can only be held once.

**Donor(s):** Mrs. Alta Ethelyn Wardlaw  
**Qualification(s):** Students registered in the College of Social and Applied Human Sciences who have completed up to 15.0 credits and who will be travelling for academic reasons, or to attend an appropriate professional conference/meeting.  
**Amount:** 1 award of $1,000

#### A.W. Archibald Memorial Travel Grant [T4541]
Mr. A.W. Archibald, O.A.C. ‘33 with the assistance of the Ontario government's OSOTF program, provide these travel grants to students who plan to travel for a semester abroad or to attend other schools outside of Canada for workshops or other academic related purposes. Apply to Student Financial Services with a letter outlining proposed travel plans and academic purpose accompanied by a letter of support from a faculty member or student advisor, and a Need-Based Travel grant application by October 7. ACCESS AWARD.

**Donor(s):** A.W. Archibald, O.A.C. ‘33 with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Undergraduate students in any O.A.C. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** Several awards up to $1000

#### Aeroplan International Travel Grant [T0604]
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a “Travel Grant Need-based Application”. Preference will be given to students participating in the semester abroad or academic exchanges. Award is subject to the availability of Aeroplan miles and may not be available every year.

**Donor(s):** Aeroplan  
**Qualification(s):** Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.  
**Amount:** 1 or more awards of a plane ticket

#### Arthur D. Latornell Undergraduate Travel Grants [T0058]
An endowment fund established in memory of Arthur D. Latornell, O.A.C. ‘50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.

**Donor(s):** The Estate of Arthur D. Latornell  
**Qualification(s):** Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.  
**Amount:** several up to a maximum of $1000

#### Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]
The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government's OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totaling $7500.

**Donor(s):** Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Undergraduate degree students in either the second or third year of study. Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a “Letter of Permission” prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** A number of awards to a maximum of $7,500

#### Class of OAC ‘59 Experiential Learning Travel Grant [T0702]
The Class of OAC ‘59, in recognition of their 50th anniversary since graduation, has established this award to assist students participating in meetings, conferences, seminars, tradeshows, course field trips, semesters abroad, etc. Selection will be based on relevance of intended travel and benefits to program of study. Apply by April 1st to the OAC Awards Office with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs and expected benefits. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be beneficial.

**Donor(s):** OAC ‘59  
**Qualification(s):** Students registered in any undergraduate degree program of OAC who have completed a minimum 8.0 credits or students registered in the Diploma in Agriculture or Horticulture programs at Alfreed, Kemptville or Ridgotent campuses or Turfgrass Diploma at the Guelph campus who have completed 6.0 credits are eligible. Students must have a 70% cumulative average and must have travel related to their studies to be considered.  
**Amount:** Several awards of up to $15,000

#### D & G Hart Travel Grant [T0601]
Douglas H., O.A.C. 1922, and George M., O.A.C. 1927, were long time supports of O.A.C. and believed greatly in the benefits that travel provided to an individual's personal and professional growth. Apply to the O.A.C. Awards Office by May 15 with a letter of no more than two pages, outlining the intended study program/conference/or other type of travel opportunity, the reasons for choosing the travel program and the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. This award cannot be held with any other University of Guelph Travel Grant.

**Donor(s):** Family of Douglas and George Hart  
**Qualification(s):** Students currently enrolled in any O.A.C program with a minimum 70% cumulative average who intend to participate in travel related to course study.  
**Amount:** 1 award of up to awards of $750
Drs. Frederick Kozak and Lorna Hruby Travel Grant [T0784]

Established by the parents of a BAH graduate in 2008 and MA in 2011. Selection will be based on level of commitment to international development and plan for engagement. There are two distinct application deadlines - April 15 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, this award can be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the planned international activity including local engagement, and commitment to international development. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

Donor(s): Drs. Frederick Kozak and Lorna Hruby

Qualification(s): Full time students registered in any major offered by CSAHS who have completed at least 10.0 credits with a minimum cumulative average of 70%, and who demonstrate the desire and aptitude to help build capacity and address social issues in international communities and are participating in any course-related international travel.

Amount: 1 award of $5,000

Geography Field Trip Grant Travel Grant [T0584]

Established in honour of the retirement of Dr. G.T. Bloomfield, former faculty member and Chair of the department of Geography from 1977 to 1982. Apply to the Chair of the Geography department by May 15 with a one-page essay outlining the benefits and expectations of the field course to their career as a geographer and one letter of reference from a geography professor.

Donor(s): Alumni, Colleagues, and Friends of Dr. G.T. Bloomfield

Qualification(s): Full-time students enrolled in one of the honours program (B.A.H; B.Sc.(ESS); B.Sc.(Env)) offered by the Department of Geography who have completed a minimum of 12.5 credits and have a cumulative average of at least 70% at the time of registration for GEOG*4690.

Amount: 1 award of $400

H.C. Mason Travel Scholarships [T0598]

In memory of the late H.C. Mason, a travel fund, within the O.A.C. Teaching Trust, for O.A.C. students has been established by F.W. Bray of Hamilton. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the travel program, with the submission of a letter of no more than two pages outlining the intended study program/conference/or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant in not tenable with other University of Guelph travel grants.

Donor(s): Mr. F.W. Bray

Qualification(s): Student who are currently registered in an Ontario Agricultural College undergraduate program with a minimum of 70% cumulative average who intend to participate in travel related to course study

Amount: various awards up to $1,500

J. Ross Cavers Study Abroad Scholarship [T0051]

O.A.C. ’53 provides these scholarships in memory of J. Ross Cavers, their honorary year member, professor emeritus, and respected poultry scientist. Apply by letter outlining the intended semester abroad program, the reasons for choosing the program and the perceived value of participation along with a brief summary of related and extracurricular activities to the O.A.C. Awards Office by May 15. A letter of recommendation will also be considered as part of the application package. Application should be made a maximum of two semesters prior to participation in the intended travel program.

Donor(s): Class of O.A.C. ’53

Qualification(s): Undergraduate student in O.A.C. planning to participate in a semester abroad program with a minimum 75% cumulative average. Preference will be given to a candidate who has exhibited qualities of leadership.

Amount: 2 awards of $2,000

J.D. Cunningham Travel Grant [T0605]

Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by May 15 to the O.A.C. Awards Office with a letter of no more than two pages outlining the intended study program, conference, or other type of learning opportunity. Include the reason for choosing the program and describe the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. Upon return from the travel opportunity, the student must be willing to present a report to classmates and/or faculty and/or the Ontario Food Protection Association.

Donor(s): Ontario Food Protection Association

Qualification(s): Students currently enrolled in any O.A.C. program with a minimum cumulative average of 75%. Preference will be given to students in Food Science specializing in Microbiology.

Amount: 1 award of $2,000

Jeff and Donna Lozon Travel Grant [T0772]

Selection will be based on budgetary considerations and academic standing. There are two distinct application deadlines - April 15 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, this award can be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

Donor(s): Jeff Lozon (CSS BA ’76) and Donna Doherty Lozon

Qualification(s): Full-time students registered in any degree program in CSAHS who are participating in any course-related international travel.

Amount: 2 awards of $1,000

Kenneth W. Knox Undergraduate Leadership Travel Grant [T4403]

Established to honour and recognize Kenneth Knox, Kempville ’67, OAC ’72, for his passionate and innovative career. Selection will be based on relevance of intended travel and benefits to program of study, demonstrated leadership contributions and financial need. Apply by October 7 to Student Financial Services with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs, expected benefits, demonstrated leadership as evidenced by participation in extracurricular activities or volunteer services, along with a completed University of Guelph Financial Need Assessment Form. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be considered.

Donor(s): Friends and Family of Kenneth Knox with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students registered in any program offered by OAC who have demonstrated leadership contributions, have completed a minimum of 10.0 credits with a minimum 70% cumulative average and plan to participate in an experiential learning opportunity related to their field of study, such as: semester abroad, exchange program, etc. and have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $2,000

Kincardine Shippers Association Travel Grant [T0676]

Established by the members of the Kincardine Shippers Association to assist students in pursuit of their educational goals. Selection will be based on the stated travel benefits, leadership potential and financial need considered. Preference will be given to students from the Municipality of Kincardine and the Township of Huron-Kinloss. Apply with a letter of no more than two pages outlining the intended study program or type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation, along with a Need-Based Travel grant application by October 7 to Student Financial Services. A letter of recommendation will be considered as part of the application.

Donor(s): Kincardine Shippers Association

Qualification(s): Students registered in any program offered by O.A.C. with a minimum 70% cumulative average who plan to participate in travel related to course study.

Amount: 1 award of $1,000

Kiyoko Miyaniishi International Travel Grant [T0742]

Established by Dr. Kiyoko Miyaniishi, a retired faculty member from the Department of Geography, and Dr. Edward A Johnson. Selection will be based on budgetary considerations and academic standing. There are two distinct application deadlines - April 1 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, both awards could be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

Donor(s): Dr. Kiyoko Miyaniishi and Dr. Edward A Johnson

Qualification(s): Full-time students registered in any degree program in CSAHS with a minimum 70% cumulative average who are participating in any course-related international travel.

Amount: 2 awards of $3,500
Massey Fund Travel Scholarships [T0417]
Travel scholarships available from the Massey Fund. Not tenable with other awards that support travel costs. Apply by letter outlining the study abroad/exchange program and travel costs to the O.A.C. Dean’s Office by May 15.

Donor(s): O.A.C. Awards Committee
Qualification(s): O.A.C. undergraduate students who are participating in an approved study abroad or exchange program outside Canada. Academic standing in the last two full-time semesters or equivalent will be used to determine recipients.
Amount: 6 awards of up to $2,000 each

Mathematics & Statistics Fourth Year Travel Grants [T0624]
Apply by submitting a letter with a brief description of the conference and a detailed budget to the Mathematics and Statistics Undergraduate Awards Committee at least one month prior to the conference. Preference will be given to students presenting a paper or poster or returning to pursue graduate studies in the department. A student may be considered for this grant once only.

Donor(s): The Department of Mathematics and Statistics
Qualification(s): Registered students in year 4 (i.e. who have completed a minimum of 15.0 credits) with a cumulative average of at least 75%, enrolled in any major offered by the Depart. of Math and Stats, and who are planning to attend a conference related to program of study.
Amount: Several grants of up to $250

Michael Chepesuik International Travel Grant [T0373]
Offered in memory of the late Michael W. Chepesuik, O.A.C. ’30. Application by letter should be made to the O.A.C. Dean’s Office by May 15, and include a description of the study program. Travel grant (or grants). Up to 80% of the actual travel costs associated with the study outside of Canada program will be covered up to a maximum of $1,000 per student.

Donor(s): Mr. Michael W. Chepesuik
Qualification(s): Students pursing studies in Food Agriculture and Resource Economics and who are studying outside of Canada for one or more semesters.
Amount: 1 award of $1,000

O.A.C. ‘05 Excellence Travel Grant [T0060]
In honour of the O.A.C. Class of 1905 and with the support of the O.A.C. Class of 2005, Apply to the O.A.C. Awards Office by May 15 with the submission of a letter of no longer than two pages outlining the intended study program/conference/or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant in not tenable with other University of Guelph travel grants.

Donor(s): Class of OAC 1905 and the Class of OAC 2005
Qualification(s): Student who are currently registered in an Ontario Agricultural College undergraduate degree program and wish to travel to expand their educational opportunities.
Amount: 1 award of $300

O.A.C. ’47 Travel Bursaries [T3505]
Provided by O.A.C.’47 on the occasion of its 50th anniversary and with the assistance of the Ontario government’s OSOTF program. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure by October 1, for winter travel, February 1 for summer travel or June 1 for fall travel. ACCESS AWARD

Donor(s): O.A.C. ’47 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students who have demonstrated financial need and who are participating in a study abroad program for academic credit at an approved institution. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: several awards of various amounts

O.A.C.’54 International Study Scholarship [T0586]
Established in memory of Beth Duncan to support students participating in an exchange program, study abroad semester, or a field trip course. Submit a letter (of not more than two pages) outlining the intended international study program, reasons for choosing the program and the anticipated benefits of participation. Letters should also include a brief summary of extracurricular and student related activities. Letters of reference will be considered. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the program.

Donor(s): Class of O.A.C. ’54
Qualification(s): Currently registered students in O.A.C. who are Canadian citizens or permanent residents with a minimum 75% cumulative program average who intend to participate in an exchange program, semester abroad, or field trip course.
Amount: 2 awards of $1,450

OURA Innovation Travel Grant [T4393]
Established in recognition of an innovative student fee protocol put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7th with a completed Financial Need Assessment Form and include one-page description of the intended travel. ACCESS AWARD

Donor(s): Ontario University Registrars’ Association (OURA) with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $350

Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]
The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government’s OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD.

Donor(s): The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: Several awards of varying amounts to a maximum of $1,000

Robb Travel Grants [T3028]
These travel grants have been provided in recognition of her love of agriculture, by the estate of Martha Robb, Paris, Ontario. Apply to the Dean, O.A.C. by May 15.

Donor(s): The Estate of Martha Robb
Qualification(s): O.A.C. students who are attending another university on a Letter of Permission.
Amount: Several awards of various amounts

Roderick Long International Travel Grant [T0360]
Offered in memory of the late Roderick Long, O.A.C. ’54. Up to eighty percent of the travel costs associated with the study outside of Canada program will be covered up to a maximum of $1,000 per student. Application by letter should be made to the Dean, O.A.C. by May 15, and include a description of the study abroad program.

Donor(s): Mr. Roderick W. Long
Qualification(s): O.A.C. undergraduate student who is studying outside of Canada on an approved program for one or more semesters.
Amount: Several awards of $1,000

SOLAL Travel Grants-French Studies and European Studies [T0724]
Established in recognition of the need for, and encouragement of, opportunities to travel in order to enhance educational opportunities. Normally one award will be granted to a student within French Studies and one will be awarded to a student within European Studies. Selection will be based on highest academic standing. No application necessary.

Donor(s): Anonymous Donors
Qualification(s): Students registered in the French Studies or European Studies majors of the Bachelor of Arts program who have completed a minimum of 10.0 credits, have a minimum 70% cumulative average and have been accepted into an international study abroad program at a European university through the Centre for International Programs.
Amount: 2 awards of $750
### The Jean Rich Foundation Travel Grant [T0730]

Selection will be based on budget considerations, and participation in community development projects. There are two distinct application deadlines - April 1 for Summer/Fall and October 1 for Winter/Sumer. If a qualified candidate is not selected from the April applicant pool, both awards could be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity, including involvement in community development projects, and the financial need. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

**Donor(s):** The Jean Rich Foundation  
**Qualification(s):** Full-time students registered in the College of Social and Applied Human Sciences who are participating in international travel activities in developing countries as part of a course of study.  
**Amount:** 2 awards of $2,500

### University of Guelph Travel Scholarships [T0421]

The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.

**Donor(s):** University of Guelph  
**Qualification(s):** Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.  
**Amount:** Several awards up to $1,500
Bachelor of Arts and Science

Please refer to the General Statement on Awards for:

- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

Entrance Scholarships

1961-1964 Redmen Football Scholarships [E0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipients will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.
Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [E0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

Al Singleton Hockey Scholarships [E0687]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [E0663]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Allen Keele
Qualification(s): Entering student-athlete who is a member of the Varsity track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

Angelo and Frank Agro Undergraduate Scholarship [E0520]
These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership role(s) in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

Donor(s): The Frank Agro Estate
Qualification(s): Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4H projects.
Amount: 8 awards of $7,000 (payable over 4 years of study)

Barry Lee Scholarship for Agricultural Excellence [E0797]
Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

Donor(s): The Regional Municipality of Halton
Qualification(s): Students entering any undergraduate program offered by OAC.
Amount: 1 award of $1,000

Board of Governors’ Scholarships [E0317]
The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

Donor(s): Board of Governors
Qualification(s): Academically outstanding students entering semester 1 with the highest admission averages of the entering cohort.
Amount: 25 award of $8,000 (payable over 4 years of study)

Bob & Joyce Brooks Football Scholarships [E0691]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Mrs. Joyce Brooks
Qualification(s): Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Coach Rudy Florio Football Scholarship [E0737]
Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Application is not required.

Donor(s): Mr. Rudy Florio
Qualification(s): Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Dr. Jack Britney Scholarship [E0934]
Established in memory of Dr. Jack Britney, a graduate of ’57A and O.A.C. ’60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to Graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.

Donor(s): Friends and Associates
Qualification(s): Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph.
Amount: 1 award of $1,000

Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]
Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the Varsity Cross / Country or Track and Field Team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

Elaine Scott-Thomas Track and Field Scholarship [E0706]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Dave Scott-Thomas CBS BSc ’88
Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,500

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Last Revision: Oct. 19, 2012
Emery Family Scholarship [E0736]

Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. John Embry

Qualification(s): Entering student-athlete who is a member of a varsity team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

Amount: 1 award of $3,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [E0627]

Established by Ernest Kendall, O.A.C. B.S.A 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Ernest Kendall

Qualification(s): Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.

Amount: 2 awards of $1,350

Ernie Kendall Science Entrance Scholarship [E0668]

Established by Ernest Kendall, O.A.C. B.S.A. 1932 and awarded to the student entering a science program with the highest admission average. Preference will be given to students that graduated from Elmira District School. This award is not tenable with the President's Scholarships, the Lincoln Alexander Scholarships or the Board of Governors Scholarships. Application is not required.

Donor(s): Ernest W. Kendall

Qualification(s): Students entering any sciences (B.Sc., B.Sc.(Agr.), B.Sc.(Env.), B.Sc.(Tech), B.A.Sc., B.A.S., B.B.R.M., B.Eng.) degree program with a minimum 80.0% admission average.

Amount: 1 award of $2,000

Football Endowment Fund (FEF) Scholarship [E0644]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Various University of Guelph donors

Qualification(s): Entering student-athlete who is a member of the Men's football team and who has achieved a minimum 80% admission average.

Amount: various awards of $750 to $3,500

George A. Gray O.A.C. ’51 Varsity Scholarships [E0487]

Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

Donor(s): Mrs. George A. Gray

Qualification(s): Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.

Amount: 2 awards of $1,250

George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): George Ames

Qualification(s): Entering student-athlete who is a member of the Varsity Cross Country team and who has achieved a minimum 80% admission average.

Amount: 1 award of $3,500

Gerd and Christel Baldauf Men’s Basketball Scholarship [E0639]

Established by Christian Baldauf, B.Sc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. Christian Baldauf

Qualification(s): Student-athlete entering the BSc program who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.

Amount: 1 award of $3,500

Gordon W. Innes Scholarship [E0140]

Application is not required.

Donor(s): Gordon W. ‘Sparky’ Innes Scholarship Fund Committee of the Woodstock Agricultural Society.

Qualification(s): Student entering any degree program from Oxford County with the highest admission average.

Amount: 1 award of $1,400

Greyphon Athletic Scholarships [E0631]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): University of Guelph

Qualification(s): Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.

Amount: various awards of $750 to $3,500

Hardy International Student Scholarship [E0659]

Selection is based on the assessment of the student’s admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required.

Donor(s): Mrs. Marion Hardy

Qualification(s): Full-time international students (defined as paying the international student tuition and fees) entering any degree program.

Amount: 1 award of $3,000

International Student Entrance Scholarships [E0408]

In support of the University’s strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is not required.

Donor(s): University of Guelph

Qualification(s): Students on a “student visa” entering an undergraduate degree program at the University of Guelph with a record of high academic achievement and extracurricular involvement, and studying full-time. This award is offered for the first year of study.

Amount: Several awards ranging in value from $500 - $6,000

J.D. MacLachlan Scholarship [E0170]

Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.

Donor(s): The J.D. MacLachlan Trust

Qualification(s): Students entering any degree program at the University of Guelph.

Amount: 1 award of $1,500

Jack and Lillian MacDonald Scholarship [E0379]

Family, friends, and colleagues of Lilian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

Donor(s): Family, friends and colleagues of Lilian MacDonald and Dr. Jack MacDonald

Qualification(s): Students entering from the Six Nations Polytechnic (SNP).

Amount: 1 award of $900

John Vanderkamp Memorial Scholarship [E0321]

Established by family, friends and colleagues of John Vanderkamp, former Chair of the Department of Economics, respected Dean of the College of Social Science (1981-1991) and an enthusiastic promoter of liberal education as encompassed in the Arts & Science Program. Apply to Student Financial Services by June 30 with a letter describing involvement in extra-curricular activities and two reference letters from counsellors, teachers or mentors.

Donor(s): Established by the family, friends and colleagues of John Vanderkamp

Qualification(s): Academically outstanding students entering the B.A. program with significant involvement in extra-curricular activities.

Amount: 1 award of $500
Kelly Bertrand Cross Country Scholarship [E0684]
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletics Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand

**Qualification(s):** Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.

**Amount:** 1 award of $2,000

Larry Pearson Men’s Volleyball Athletic Scholarships [E0618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson

**Qualification(s):** Entering student-athlete who is a member of the men’s varsity volleyball team and who has achieved a minimum 80% admission average.

**Amount:** several awards up to $3,500

Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [E0732]
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Maryam Latifpoor-Keparoutis

**Qualification(s):** Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,200

Lincoln Alexander Scholarships [E0689]
Established in 2001 in honour of Lincoln Alexander, Chancellor Emeritus of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This award cannot be held with the President’s Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

**Donor(s):** Many Donors

**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and communities. In addition, students must be: Aboriginal; or a person with a disability; or a member of a racial minority.

**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistance)

Lloyd Dorr Memorial Hockey Scholarship [E0708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Family and Friends of the late Lloyd Dorr

**Qualification(s):** Entering student-athlete who is a member of the men’s varsity hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,000

McArthur-Humphries Scholarship [E0183]
An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county. These scholarships are awarded to students with the highest admission averages. Application is not required.

**Donor(s):** Wilhelmina McArthur-Humphries Trust Fund

**Qualification(s):** Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.

**Amount:** 12 awards of $1,000

Men’s Basketball Scholarships [E0638]
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Anonymous (Alumnus)

**Qualification(s):** Entering student-athlete who is a member of the varsity Men’s Basketball team and who has achieved a minimum 80% admission average.

**Amount:** 4 awards of $2,500

Men’s Soccer Alumni Scholarship [E0771]
Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

**Donor(s):** Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)

**Qualification(s):** Entering student-athlete who is a member of the Gryphon men’s soccer team with a minimum 80% admission average.

**Amount:** several awards ranging in value from $1,000 to $3,500

Moulton-Hutchinson Family Track and Field Scholarship [E0705]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletics Awards Committee. Application is not necessary.

**Donor(s):** The Moulton and Hutchinson Families

**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $3,500

Pamela Wallin Chancellor’s Scholarships [E0688]
Established in 2009 in honour of Pamela Wallin, Chancellor of the University of Guelph and considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.

**Donor(s):** University of Guelph

**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have taken a leadership role in activities that demonstrate an interest in international relations and development and who indicate an ongoing desire to gain a broader subject knowledge through course work and/or engagement in the discipline and demonstrate the potential to become leaders in society.

**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

President’s & Chancellor’s Finalists Scholarship [E0651]
Established in recognition of demonstrated academic excellence, leadership ability and participation in the President’s and Chancellor’s Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President’s or Chancellor’s Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.

**Donor(s):** Provost, and Vice-President Academic of the University of Guelph

**Qualification(s):** Students entering any degree program who have been interviewed for consideration for a President’s or Chancellor’s Scholarship.

**Amount:** several awards of $500
President's Scholarship [E0238]
Established in 1987 in honour of their donors or distinguished members of the University and considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated leadership ability and potential as evidenced through positions held, extracurricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the Lincoln Alexander Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

Donor(s): A number of President's Scholarships have been named in honour of the following people and/or donors:
- Cecil H. Franklin and Ingrid Franklin
- Charles S. Humphrey
- Mr. Timothy Sprung
- Mr. Ronald & Nancy Cliff
- Mr. Edward (Ted) Morwick
- Mr. and Mrs. F.T. Metcalf
- Hank, Peter, Arthur, and Eric Vander Pol
- Mr. Ronald & Nancy Cliff
- Mr. Edward (Ted) Morwick
- Mr. and Mrs. F.T. Metcalf
- Hank, Peter, Arthur, and Eric Vander Pol
- Mr. Ronald & Nancy Cliff

Qualification(s): Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and/or communities.

Amount: $2,250 ($750 in the 1st, 3rd, and 5th semesters)

Sprung Family Men’s Basketball Scholarship [E0672]
Established by Timothy Sprung, CSS ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. Timothy Sprung
Qualification(s): Entering student-athlete who is a member of the Men's basketball team and who has achieved a minimum 80% admission average.

Amount: 1 award of $3,500

Ted Morwick Scholarship [E0796]
Established by Alumnus Ted Morwick, BA ’70. The student with the highest admission average will be selected. This award is conditional on maintaining a 80% average in the previous year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify, i.e. the student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year. If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opportunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary.

Donor(s): Mr. Edward (Ted) Morwick
Qualification(s): Students entering any degree program in the College of Arts.

Amount: 1 award of $8,000 (payable over four years.)

Tom Moomey Scholarship [E0709]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the varsity men’s football team or men’s basketball team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

Amount: Numerous awards ranging in value from $1,000 to $3,500

University of Guelph Entrance Scholarships [E0291]
The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student’s financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive this award. Application is not required.

Donor(s): University of Guelph
Qualification(s): All students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average.

Amount: Several awards of $2,000, Several awards of $3,000

University of Guelph Faculty Association Scholarship [E0292]
Award is payable at $750 per annum in the student's 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required.

Donor(s): University of Guelph Faculty Association
Qualification(s): Students entering any undergraduate degree program at the University of Guelph from Wellington county.

Amount: 1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)

W. Penri Morris Memorial Scholarship [E0430]
Established by the family in memory of Penri Morris, who was killed World War II action in 1944 at the age of 21. Penri grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required.

Donor(s): Prof. Rosalina Morris
Qualification(s): Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.

Amount: 1 award of $1,000
Walter and Halina Slabikowski Scholarship [E01766]
This scholarship was established in memory of Walter and Halina Slabikowski who sent their first generation Canadian born children to university to enrich their lives and provide them with greater opportunities. The award will be given to the student with the highest admission average. The residence deposit must be received by published deadline date. Submit by email to awards@registrar.uoguelph.ca your full name, student ID number and a statement attesting to your parents' place of birth and non participation in post secondary education by April 15th.

**Donor(s):** Irene Thompson and Slabikowski Family  
**Qualification(s):** Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.

**Amount:** 1 award of $1,000

Waterloo-Wellington Science & Engineering Fair (WWSEF) Scholarship [E0619]
Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.

**Donor(s):** University of Guelph  
**Qualification(s):** Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.

**Amount:** various awards of $1,000

William L. McEwen OAC ’43 Men's Varsity Hockey Scholarships [E0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mrs. Irene McEwen  
**Qualification(s):** Entering student-athlete who is a member of the Men's Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

**Amount:** Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [E0634]
Established by Dr. William P. Weber, OVC '59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. William P. Weber  
**Qualification(s):** Entering student-athlete who is a member of the Men's Football team and achieved a minimum 80% admission average.

**Amount:** 1 award of $2,500

Entrance Scholarships with Financial Need

Bill Klopp Memorial Scholarship [E0150]
Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

**Donor(s):** Ross and Mary Lou Klopp  
**Qualification(s):** Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.

**Amount:** 1 award of $500

Devine Family Scholarships [E4542]
On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government's OTSS program, established these two awards for the purpose of diversifying the ethnicity of the student body of the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out once every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the “Devine Family Scholarship Application”. Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards. ACCESS AWARD.

**Donor(s):** Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability, or who are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $30,000 (payable over 4 years of study)

Interhall Council Entrance Scholarship [E0636]
Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services. (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.

**Donor(s):** Interhall Council  
**Qualification(s):** Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability.

**Amount:** 3 awards of $1,250

John Embry Family Scholarship [E4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services. (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.

**Donor(s):** Mr. John Embry with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $3,500

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Last Revision: Oct. 19, 2012  
2012-2013 Undergraduate Calendar
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenneth O. Hammill-Blount Canada Scholarship [E4356]</td>
<td>Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government’s OSOTF program. Selection will be based on greatest financial need from the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who applied for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships who are interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). Amount: 1 award of $9,600 (payable in 8 payments of $1,200)</td>
</tr>
<tr>
<td>Rol-Land Farms Scholarships [E4519]</td>
<td>Established by Rol-Land Farms, with the assistance of the Ontario government’s OSOTF program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD. Donor(s): Rol-Land Farms with matching funding through the Ontario Student Opportunities Trust Fund Qualification(s): Students entering a degree program with demonstrated financial need and a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). Amount: 13 awards of $2,000</td>
</tr>
<tr>
<td>Spitzig Entrance Scholarship in Economics [E4543]</td>
<td>A graduate (1986) of the B.A. Economics program has established these scholarships with the assistance of the Ontario government’s OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD. Donor(s): Anonymous with matching funding through the Ontario Trust for Student Support program Qualification(s): Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). Amount: 2 awards of $4,500</td>
</tr>
<tr>
<td>W. F. Mitchell Athletic Scholarship [E4550]</td>
<td>Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD. Donor(s): The Mitchell Family with matching funding through the Ontario Trust for Student Support program Qualification(s): An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). Amount: 1 award of $1,350</td>
</tr>
<tr>
<td>Entrance Bursaries</td>
<td>These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15. ACCESS AWARD. Donor(s): The Estate of the late William Henry &quot;Harry&quot; Hunter with matching funding through the Ontario Trust for Student Support program Qualification(s): Students entering any degree program at the University of Guelph with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). Amount: 5 awards of up to $4,500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landoni Athletic Scholarship [E4405]</td>
<td>Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Student must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD. Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent in the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). Amount: 1 award of $1,000</td>
</tr>
<tr>
<td>Norman L. Gibbins Microbiology Scholarship [E4392]</td>
<td>Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government’s OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD. Donor(s): Family, friends and colleagues of Norman Gibbins with matching funding through the Ontario Trust for Student Support program Qualification(s): Students entering the Microbiology major in the B.Sc. program with a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). Amount: 1 award of $1,000</td>
</tr>
<tr>
<td>P.A.J. Clarke Family Scholarship [E0381]</td>
<td>Paul and Aileen Clarke and their family established the entrance scholarship for this entrance scholarship in honour of Paul’s father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F). This award is not tenable with the President’s Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates. Donor(s): Paul and Aileen Clarke Qualification(s): Students with a minimum 80% average with a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm. Amount: 1 award of $12,000 (payable over 4 years)</td>
</tr>
</tbody>
</table>
### Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. ’39). Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15.

**Donor(s):** Harvey Graham, O.A.C. ’39  
**Qualification(s):** Student who has demonstrated financial need with preference given to a student who comes from a working farm. Students graduating from Lindsay C. V. I., Fenelon Falls Secondary School, or I. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student’s home township.

**Amount:** 1 award of $1,200

### International Student Entrance Bursaries [E3043]

In support of the University’s strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar’s Entrance Award Application to Student Financial Services.

**Donor(s):** University of Guelph  
**Qualification(s):** Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.

**Amount:** Several awards ranging in value from $1,000 to $3,000

### Registrar’s Entrance Bursaries [E30384]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Bursary, but can be held with all other entrance awards.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.

**Amount:** 500 awards of $2,000

### Robert Arthur Stewart Bursaries [E3272]

Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

**Donor(s):** The Estate of Mrs. H. Stewart  
**Qualification(s):** Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.

**Amount:** 12 awards of $500

### University of Guelph Accessibility Bursaries [E3038]

Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar’s Entrance Bursary, but can be held with all other Entrance Awards.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.

**Amount:** 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

### In-course Scholarships

#### 1961-1964 Redmen Football Scholarships [I0770]

Made possible by the generous contributions of members of the 1961-1964 Redmen football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Dr. Robert Keith (c/o 1961-1964 Football Committee)  
**Qualification(s):** Current member of the Gryphon Football team who is registered in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** several scholarships ranging from $1500 to $3500

#### 2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [I0769]

Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)  
**Qualification(s):** Current member of the Gryphon Men’s Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,500

### Al Singleton Hockey Scholarships [I0687]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** 1957-58 OA-VC Redmen Championship Hockey Team  
**Qualification(s):** Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

### Allen Keele Track and Field Scholarship [I0663]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Allen Keele  
**Qualification(s):** In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $1,350
**Bill Taylor Memorial Scholarship [10280]**

Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.

**Donor(s):** AMF Canada Ltd.

**Qualification(s):** Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or intercollegiate athletics.

**Amount:** 1 award of $900

**Bob & Joyce Brooks Football Scholarships [10691]**

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Mrs. Joyce Brooks

**Qualification(s):** Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

**CBS Student Council Academic Achievement Scholarship [10744]**

The CBS Student Council provides this scholarship to recognize and further encourage the academic achievement, extracurricular activities and personal essay. Apply to the CBS Dean’s Office by May 15 with a completed application form listing academic awards, scholarships, research experience, publications and extra-curricular activities along with a 500 word personal essay outlining how the academic achievements and extra-curricular activities contribute to academic and personal goals. Award may be held only once.

**Donor(s):** CBS Student Council

**Qualification(s):** Full time students registered in a major offered by the College of Biological Science who have completed at least 10.0 credits with a minimum cumulative average of 85%.

**Amount:** 1 award of $2,500

**CBS Student Council Extracurricular Achievement Scholarship [10745]**

The CBS Student Council provides this scholarship to recognize and further encourage the academic and extracurricular achievements of CBS students. Selection will be based on breadth of extra-curricular activities, academic achievement and personal essay. Apply to the CBS Dean’s Office by May 15 with a completed application form listing extra-curricular activities, academic awards, scholarships, research experience and publications along with a 500 word personal essay outlining how the extra-curricular activities and academic achievements contribute to academic and personal goals. Award may be held only once.

**Donor(s):** CBS Student Council

**Qualification(s):** Full time students registered in a major offered by the College of Biological Science who have completed at least 10.0 credits with a minimum cumulative average of 80%.

**Amount:** 1 award of $2,500

**CFRU Volunteer Award [10215]**

Apply to the CFRU Board of Governors by April 30.

**Donor(s):** Station Manager, CFRU

**Qualification(s):** Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU.

**Amount:** 2 awards of $250

**Class of 1970 Scholarship [10424]**

Established by the Silver Anniversary celebrants to commemorate the 25th anniversary of the University Class of 1970. This award rotates among all six colleges on the main campus. The appropriate College Award Committee selects the candidate each Fall semester and the candidate is announced each October. Application is not required.

**Donor(s):** Class 1970: 25th Reunion Gift

**Qualification(s):** Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’ Honours List.

**Amount:** 1 award of $900

**Coach Rudy Florio Football Scholarship [10737]**

Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Mr. Rudy Florio

**Qualification(s):** Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $3,500

**Collins Barrow Award [10040]**

Offered by Collins Barrow, a national firm of Chartered Accountants. Application is not required.

**Donor(s):** Collins Barrow Chartered Accountants

**Qualification(s):** Student with the highest grade in course ACCT*3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship will be given to the student with the highest cumulative average in their program.

**Amount:** 1 award of $500

**David F. Boyes Apiculture Scholarship [10031]**

Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application is not required.

**Donor(s):** The Apiculture Club

**Qualification(s):** Student registered in any degree program who has completed at least 10.0 credits with a minimum cumulative average of 85%.

**Amount:** 1 award of $150

**Deans’ Scholarships [10323]**

This award was established by the Board of Governors’ in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.

**Donor(s):** Board of Governors

**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.

**Amount:** 150 awards of $1,000

**Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [10695]**

Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

**Donor(s):** Various Donors

**Qualification(s):** Current member of the Varsity Cross/Country or Track and Field Team, who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,350

**Edward Johnson Music Foundation Scholarship [10608]**

This scholarship supports the mission of the Edward Johnson Music Foundation to ensure that young people have access to the best musical education possible and to recognize the vital role of music in the fabric of our lives and communities. Selection will be based on musical and scholastic achievements and contributions to the University of Guelph communities through performance and music education. Apply to the School of Fine Art and Music Department by May 15 with a letter or C.V. listing musical contributions.

**Donor(s):** Edward Johnson Music Foundation

**Qualification(s):** Students in an Honours degree program with a declared major or minor in Music, who have completed a minimum of 10.0 credits towards their degree and who have a minimum cumulative average of 80% in MUSC courses.

**Amount:** 1 award of $500

**Elaine Scott-Thomas Track and Field Scholarship [10706]**

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Dave Scott-Thomas CBS BSc ’88

**Qualification(s):** Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,500
IX. Scholarships and Other Awards, Bachelor of Arts and Science

**Emery Family Scholarship [I0736]**
Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Mr. John Embry

**Qualification(s):** Current member of a varsity team who is enrolled in an undergraduate program and has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $3,500

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**Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [I0627]**
Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Ernest Kendall

**Qualification(s):** In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 2 awards of $1,350

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**Football Endowment Fund (FEF) Scholarship [I0644]**
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Various University of Guelph donors

**Qualification(s):** In-course student-athlete who is a current member of the Men's football team and has achieved a minimum 70% average in the previous academic year.

**Amount:** various awards of $750 to $3,500

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**George A. Gray O.A.C. ’51 Varsity Scholarships [I0487]**
Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

**Donor(s):** Mrs. George A. Gray

**Qualification(s):** In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 2 awards of $1,250

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**George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [I0677]**
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** George Ames

**Qualification(s):** In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $3,500

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**Gerd and Christel Baldauf Men’s Basketball Scholarship [I0639]**
Established by Christian Baldauf, BSc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. Christian Baldauf

**Qualification(s):** In-course student-athlete registered in the BSc. program who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $3,500

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**Governor General’s Medal [C0044]**
Established by the Office of the Governor General of Canada. Application is not required.

**Donor(s):** The Chancellery

**Qualification(s):** Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.

**Amount:** 2 awards of a Silver medal each

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**Gryphon Athletic Scholarships [I0631]**
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** University of Guelph

**Qualification(s):** In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** various awards of $750 to $3,500

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**International Undergraduate Scholarship [I0577]**
Established through a student referendum approved by the undergraduate student body, to recognize international students’ academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University and two academic and/or professional references. This award can only be held once by the student.

**Donor(s):** International Student Organization (ISO)

**Qualification(s):** Full-time international students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%.

**Amount:** 2 awards of $2,000

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**J.W. Skinner Medal in Social Science [C0260]**
Established in honour of the many contributions of Dr. J.W. Skinner, a former Dean of the College of Social Sciences. Application is not required.

**Donor(s):** Faculty, staff, alumni and students, of the former College of Social Science

**Qualification(s):** Presented to the C.S.A.H.S. Winegard Medal nominee.

**Amount:** 1 award of a Medal

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**Jack and Lillian MacDonald Scholarship [E0379]**
Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald. Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to an in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnic Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald

**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).

**Amount:** 1 award of $900

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**John Eccles Scholarship [I0093]**
Apply to Student Financial Services, by May 15, with a letter highlighting leadership abilities through participation on residence life. Providing a reference letter would be an asset.

**Donor(s):** Student Housing Services

**Qualification(s):** Full-time student registered in semester 2, 3, 4, 5 or 6 and living in residence in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.

**Amount:** 1 award of $600

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**Kelly Bertrand Cross Country Scholarship [I0684]**
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand

**Qualification(s):** Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $2,000
Kenneth W. Hammond Prize [I0045]
The evaluation of the student will be based on the final essay in the "Environmental Perspectives and Human Choice: 5000 Days’ course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

Donor(s): Kenneth W. Hammond
Qualification(s): Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.

Amount: 1 award of $1,000

Kevin Durie Memorial Scholarship [I0653]
Established in memory of Kevin Durie, BA ’93, by his family and friends. Selection will be based on demonstration of outstanding service as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

Donor(s): Christine Blake-Durie
Qualification(s): Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.

Amount: 1 award of $1,000

Kip Hunter Prize [I0139]
For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

Donor(s): Faculty, students and staff of the Philosophy Department
Qualification(s): Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.

Amount: 1 Book prize

Lambda Foundation Scholarship in LBGT Studies [I0591]
This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a given student only once. Projects must have been completed or research proposals accepted within the past calendar year. Apply to the Dean of Arts by December 15th including the research proposal or completed project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.

Donor(s): Lambda Foundation and other donors
Qualification(s): Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to lesbian, bisexual, gay, and transgendered (LBGT) studies, as broadly defined by the applicant.

Amount: 1 award of $1,000

Larry Pearson Men’s Volleyball Athletic Scholarships [I0618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Larry Pearson
Qualification(s): In-course student-athlete who is a current member of the men’s varsity volleyball team and has achieved a minimum 70% average in the previous academic year.

Amount: several awards up to $3,500

Latifpoor-Keparoutitis Family Varsity SwimTeam Scholarship [I0732]
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Maryam Latifpoor-Keparoutitis
Qualification(s): Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

Amount: 1 award of $1,200

Leonard Conolly Exchange Student Scholarship [I0446]
Established by students, faculty, staff and friends to honour Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

Donor(s): Students, staff and friends of Dr. Leonard Connolly
Qualification(s): Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).

Amount: 1 award of $1,000

Lloyd Dorr Memorial Hockey Scholarship [I0708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Family and Friends of the late Lloyd Dorr
Qualification(s): Current member of the men’s varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

Amount: 1 award of $1,000

Marion McKenzie Scholarships for Outstanding Achievement in History [I0470]
These prizes have been established in memory of Marion McKenzie (1905-1994), a teacher who had a love of learning and a continuing curiosity about the world both past and present. These are awarded to the top student in each of the required core courses in the History program (HIST*1010, HIST*2450, HIST*2602). Application is not required.

Donor(s): TBA
Qualification(s): The recipient for HIST*1010 must have completed no more than 5.0 credits; the recipient for HIST*2450, no more than 10.0 credits and be in the history program; and the recipient for HIST*2602, no more than 10.0 credits.

Amount: 3 awards of $400

Men’s Basketball Scholarships [I0638]
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Anonymous (Alumnus)
Qualification(s): In-course student-athlete who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.

Amount: 4 awards of $2,500

Men’s Soccer Alumni Scholarship [I0771]
Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)
Qualification(s): Current member of the Gryphon Men’s Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

Amount: several awards ranging in value from $1,000 to $3,500
Nathan Max Goldman Choir Scholarships [I0774]
Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and/or the Chamber Choir. One award will be available to a student in each choir, and will be given to the candidate who best combines vocal high achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required as a recommendation by Choir Director will be made to the SOFAM Awards Committee.

Donor(s): Mrs. Anne Goldman and the family of Nathan Max Goldman
Qualification(s): Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and/or the Chamber Choir and have been a member of the University of Guelph Choirs for at least two years.
Amount: 2 awards of $1,000

Priscilla and Stanford Reid Trust Prize [I0597]
Established in honour of the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written on the history of Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.

Donor(s): Priscilla and Stanford Reid Trust Fund
Qualification(s): Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.
Amount: 1 award of $500

Professional Staff Association Scholarship [I0628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 by sending an email to awards@registrar.uoguelph.ca and include the name of the family member of the Professional/Managerial Group of the University, and/or retired Professional/Managerial Group of the University of Guelph. This award may be held more than once, however, not in consecutive years. Preference will be given to students of current or retired P.S.A. members.

Donor(s): Professional Staff Association
Qualification(s): Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University, and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.
Amount: 1 award of $1,500

Professor Victor Matthews Track and Field Scholarships [I0707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: up to 10 $500 each

Rachel Cliff Scholarship [I0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Ronald & Nancy Cliff
Qualification(s): Current member of the Women’s Middle Distance Team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

Russell Athletic Scholarships [I0722]
The recipients will be selected based on demonstrated leadership qualities and contributions to the team. Coaches will nominate students to the Athletic Awards Committee. No application necessary.

Donor(s): H.D. Brown Enterprises Ltd.
Qualification(s): Current members of a University of Guelph Varsity Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 4 awards of $2,500
### United Steelworkers Local 4120 Scholarship [10293]

Apply to Student Financial Services by January 31 and provide the name of the USWA member and relationship to the applicant. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class standing in his or her previous full-time semester.

**Donor(s):** United Steelworkers LU 4120  
**Qualification(s):** Student who is a member or former member, or who is from the immediate family of a member of United Steelworkers LU 4120, and who is entering semester 2, 3, or 4 of a degree or diploma program in the Winter semester with a minimum 70% cumulative average.

**Amount:** 1 award of $1,000

### University of Guelph Alumni Legacy Scholarship [10735]

Funded through donations made to the University of Guelph Alumni Memorial Fund in memory of deceased alumni. The recipient will be selected based on academic achievement and volunteer contributions to the University of Guelph community. Apply to Student Financial Services by May 15 with a letter indicating name, degree and year of graduation of alumna/alumnus relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.

**Donor(s):** Various donors c/o University of Guelph Alumni Association Memorial Fund  
**Qualification(s):** Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with both a minimum cumulative average of 75% and demonstrated volunteer leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumna/us of the University of Guelph or its founding colleges.

**Amount:** 1 award of $1,000

### Van Stralen and Van Der Hoeven Memorial Scholarship [10296]

Selection will be made on the basis of participation in university activities and in the student's home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

**Donor(s):** Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family  
**Qualification(s):** Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.

**Amount:** 2 awards of $400

### W.C. Winegard Medal [C0311]

The W.C. Winegard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** The Board of Governors of the University  
**Qualification(s):** Graduating student who excels both academically and in extracurricular activities.

**Amount:** 1 award of a Gold medal

### W.N. Vaughan Medal [C0299]

Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** Friends of Walter N. Vaughan  
**Qualification(s):** Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.

**Amount:** 1 award of a Medal

### Waterloo-Wellington CA Association Scholarship [10367]

Provided by the Waterloo-Wellington Chartered Accountant's Association. Application is not required.

**Donor(s):** Waterloo-Wellington Chartered Accountants Association  
**Qualification(s):** Student who achieves the highest academic standing in the course ACCT*3330, Intermediate Accounting.

**Amount:** 1 award of $100

### William Furlong Scholarship in Microeconomics [10582]

The Department of Economics offers these scholarships in honour of Professor William Furlong, a long-term member of the Department of Economics and a leader in the scholarship of teaching principles of microeconomics, to the three students with the highest final grades in Introductory Microeconomics (ECON*1050) in the fall semester. Application is not required.

**Donor(s):** Colleagues & Friends of Dr. William Furlong  
**Qualification(s):** Full-time students enrolled in Introductory Microeconomics (ECON*1050)  
**Amount:** 3 awards of $200

### William L. McEwen OAC '43 Men's Varsity Hockey Scholarships [10703]

The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

**Donor(s):** Mrs. Irene McEwen  
**Qualification(s):** Current member of the Men's Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

### In-course Scholarships with Financial Need

#### 3M Canada Scholarships [10564]

Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** 3M Canada Company  
**Qualification(s):** Students entering Year 4 (ie. having completed a minimum of 70 credits) with demonstrated financial need and high academic achievement.

**Amount:** various award of up to $4,000

#### Brian Kenneth Howard Memorial Scholarship [14548]

Established by Kenneth and Irene Howard in memory of their son, Brian Kenneth Howard. Awarded to a student assessed as having financial need with a preference given to students from York, Durham or Simcoe counties. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Kenneth and Irene Howard with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Student registered in any degree program with a minimum 75.0% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $2,700
CIBC Health and Science Scholarships [I4402]

Established by CIBC with aid of the Ontario government’s OTSS program. Apply by October 7 to Student Financial Services by submitting a completed Financial Need Assessment Form and a CIBC Health and Science Scholarship Application Form. Preference will be given to an equitable distribution of the awards across the areas of human health and nutritional sciences, molecular and cellular biology and integrative biology. Should no successful candidate be available in one area the awards will be distributed to the other areas. Selection will be based on academic standing and relevance of the research project proposal. ACCESS AWARD

**Donor(s):** CIBC with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students registered in any degree program who have completed at least 7.5 credits with a minimum cumulative average of 75% and who plan to participate in a research project related to biological aspects of cancer with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 5 awards of $5,000

City of Guelph 175th Anniversary Scholarship [I0515]

Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.

**Donor(s):** The Guelph Community Foundation

**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 70.0% cumulative average, demonstrated volunteer leadership on campus and/or in the community and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian citizens or permanent residents at the time of application.

**Amount:** 1 award of $2,000

Eleanor Morgan & Bill Archibald Scholarships [I4540]

The family of Eleanor and Bill Archibald, with the assistance of the Ontario government’s OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** The Family of Eleanor & Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).

**Amount:** 1 award of $1,000

Erin Demers Memorial Scholarship [I0406]

The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.

**Donor(s):** Family and friends of Erin Katrina Demers

**Qualification(s):** Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.

**Amount:** 1 award of $1,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [I4546]

Established by Ernest Kendall, O.A.C. BSA 1932, with the assistance of the Ontario government’s OTSS program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award you must list it on your N.A.F. Selection will be made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD

**Donor(s):** Ernest Kendall with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students with demonstrated financial need who are members of the women’s varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

Euclid-Hitachi Scholarships [I4517]

Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government’s OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

Graham Family Incentive Scholarship [I4506]

Provided by Harvey Graham (O.A.C. ’39) with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Harvey Graham O.A.C. ’39 with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $4,000

Hung-So Chow Yuen Leadership Scholarship with matching funding through the Ontario Trust for Student Support program [I4400]

This award was established in memory of Hung-So Chow Yuen, Stacey Yuen’s (CBS BSc; Hon 2003 Alumni) late Grandmother. Apply to Student Financial Services by October 7 with a University of Guelph Financial Need Assessment Form along with a statement of up to 500 words outlining leadership and involvement in volunteer activities. Selection will be based on demonstrated exemplary leadership through involvement with on campus or off campus volunteer activities (student associations/non-profit organizations) as described in a statement. ACCESS AWARD

**Donor(s):** John and Agnes Yuen

**Qualification(s):** Students registered in a program offered by the College of Biological Science who have completed between 5.0 and 17.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,500

John Embry Family Scholarship [I4549]

Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Mr. John Embry with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Student-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $3,500
Landoni Athletic Scholarship [I4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD

Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,000

Residence Life Staff Scholarship [I0697]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.

Donor(s): Student Housing Services

Qualification(s): Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.

Amount: 2 awards of $500

Returning Student Residence Scholarship [I0696]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is award is conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.

Donor(s): Student Housing Services

Qualification(s): Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.

Amount: 3 awards of $500

Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [E4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS AWARD

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent, and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: various awards of up to $3,500

Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [I4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program

Qualification(s): Current member of the women's varsity ice hockey team who is enrolled in an undergraduate program with a minimum 70% average or equivalent during the previous academic year as a student-athlete who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: various awards of up to $3,500

Tara Lynn Giuliani Memorial Scholarship [I0375]
In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7.

Donor(s): The Giuliani Family

Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.

Amount: 1 varying amounts

Tony and Anne Arrell Scholarships [I0686]
Tony Arrell, OAC Bsc (Agri) ’67 and Anne Arrell, MAC BHSC ’68 have established 20 in-course awards for students with financial need. Awards will be distributed so that all colleges are represented. Apply by October 7 with a completed Financial Need Assessment Form to Student Financial Services. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Tony and Anne Arrell, Burgundy Asset Management

Qualification(s): Students registered in any degree program who have completed a minimum of 2.0 credits with a minimum 80% cumulative average and demonstrated financial need.

Amount: 20 awards of $5,000

University of Guelph Retiree Association Degree Scholarship [I0569]
The University of Guelph Retiree Association established this $1,500 scholarship in 2007 to acknowledge in-course student achievement. The student having the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last two semesters of full-time studies will be chosen. Apply by May 15th to Student Financial Services with a letter indicating name of and relationship to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.

Donor(s): University of Guelph Retirees Association (U.G.R.A.)

Qualification(s): Students with a minimum 75% cumulative average registered in a degree program who are related to a retiree of the University of Guelph as child, grand child or great grand child.

Amount: 1 award of $1,500

W. F. Mitchell Athletic Scholarship [I4550]
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): The Mitchell Family with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students who is a member of a varsity team who has achieved a minimum 70% average in the previous academic year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,350
**IX. Scholarships and Other Awards, Bachelor of Arts and Science**

**William & Nona Heaslip Scholarship [I0589]**
Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time (minimum 80% of a full course load) study. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

*Donor(s):* The William and Nona Heaslip Foundation  
*Qualification(s):* Students that have completed 4.0 credits but no more than 6.0 credits in any degree program; are a Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financial need.  
*Amount:* 2 awards of $15,000

**In-course Bursaries**

**Bette Stephenson Accessibility Bursary [I3054]**
In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student's advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

*Donor(s):* University of Guelph  
*Qualification(s):* Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.  
*Amount:* 3 awards to a maximum of $1,500

**Birks Family Foundation Bursary [I3002]**
Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

*Donor(s):* Birks Family Foundation  
*Qualification(s):* Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures.  
*Amount:* 1 award of $1,000

**Brinson Partners Inc. Bursaries [I3526]**
Brinson Partners Inc., with the assistance of the Ontario government's OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

*Donor(s):* Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund  
*Qualification(s):* Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
*Amount:* 2 awards of $1,500

**Burnbrae Farms Bursaries [I3525]**
Established by Burnbrae Farms, with the assistance of the Ontario government's OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7. ACCESS AWARD.

*Donor(s):* Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund  
*Qualification(s):* Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
*Amount:* 2 awards of $1,500

**Class of ’72: 25th Reunion Bursaries [I3512]**
Established by the Class of ’72: 25th Reunion Fund with the assistance of the Ontario government’s OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

*Donor(s):* Class of ’72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund  
*Qualification(s):* Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
*Amount:* 3 awards of $1,000

**Elizabeth Burton Bursaries [I3503]**
Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

*Donor(s):* Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund  
*Qualification(s):* Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
*Amount:* Several awards of varying amounts

**Gryphon Investment Council Bursaries [I3513]**
Established by Gryphon Investment Counsel, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

*Donor(s):* Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund  
*Qualification(s):* Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
*Amount:* 2 awards of $1,500

**Guelph Compassionate Health and Dental Bursary [I3061]**
This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.

*Donor(s):* Student Health and Dental Plan Reserve  
*Qualification(s):* Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress.  
*Amount:* Several varies to a maximum $1,500
Guelph Student Assistance ACCESS Bursaries [I3556]

These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: Several awards of varying amounts up to $1,000

Guelph Student Assistance Program [I3056]

These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Undergraduate Students
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need.
Amount: Several awards of varying amounts up to $1,000

Helen Mahon Memorial Bursary [I3063]

Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.

Donor(s): Family and Friends of Helen Mahon
Qualification(s): Students registered in any program who come from a family where one parent is deceased.
Amount: 1 award of $500

Howard and Myrtle Rogers Bursaries [I3537]

Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 10 up to $2,000

International Emergency Medical Aid Assistance [I3059]

The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.

Donor(s): University of Guelph
Qualification(s): Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.
Amount: Several awards of varying amounts

International Student Bursaries [I3009]

Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.

Donor(s): Mrs. Norma L. Valeriote
Qualification(s): Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.
Amount: Several of varying amounts

Irvine and Grace Black Memorial Bursary [I3051]

Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women's Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women's Institute by October 7.

Donor(s): Family and friends of Irvine and Grace Black
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women's Institute.
Amount: 1 award of $500

Mary I. Whitelock Bursaries [I3524]

Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government's OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 13 awards of $2,000

Ontario Co-operatives R.P. Forshaw Bursary [I3013]

The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.

Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw
Qualification(s): Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.
Amount: 1 award of $400

Robert Auger Humanitarian Bursary [I3058]

This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.

Donor(s): Office of Registrarial Services
Qualification(s): Students registered in a degree program.
Amount: Several grocery vouchers or book vouchers

Scotiabank Bursaries [I3532]

Established by Scotiabank, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Last Revision: Oct. 19, 2012
Shirley Endean Bursaries [I3570]
These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARDS

Donor(s): Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: Several awards of varying amounts

University of Guelph Access Bursaries [I3522]
Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARDS.

Donor(s): Alumni and Friend of the University of Guelph with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: Several awards of $500. Several awards of $2,000

University of Guelph Alumni Association Access Bursaries [I3523]
Established by the University of Guelph Alumni Association, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARDS.

Donor(s): University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,000

University of Guelph Child Care Bursaries [I3053]
In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph
Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need.
Amount: Several awards of up to $2,000

University of Guelph International Bursary [I3048]
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

Donor(s): University of Guelph
Qualification(s): Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.
Amount: Several varies

University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph
Qualification(s): Ontario students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.
Amount: Several awards ranging in value from $100 to $4,000

University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I3047]
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph
Qualification(s): Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.
Amount: Several awards to a maximum of $500

University Police Bursaries [I3019]
The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): The University Police
Qualification(s): Full-time undergraduate with demonstrated financial need.
Amount: Several of various amounts

University Student Assistance Program [I3057]
These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph
Qualification(s): Undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).
Amount: Several awards of various amounts to a maximum of $1,000

In-course Travel Grants
Aeroplan International Travel Grant [T0604]
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a "Travel Grant Need-based Application". Preference will be given to students participating in the semester abroad or academic exchanges. Award is subject to the availability of Aeroplan miles and may not be available every year.

Donor(s): Aeroplan
Qualification(s): Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.
Amount: 1 or more awards of a plane ticket

Arthur D. Latorello Undergraduate Travel Grants [T0058]
An endowment fund established in memory of Arthur D. Latorello, O.A.C. ’50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.

Donor(s): The Estate of Arthur D. Latorello
Qualification(s): Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.
Amount: several up to a maximum of $1000

Last Revision: Oct. 19, 2012
2012-2013 Undergraduate Calendar
### Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]

The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government's OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.

**Donor(s):** Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Undergraduate degree students in either the second or third year of study. Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a "Letter of Permission" prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** A number of awards to a maximum of $7,500

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### OURA Innovation Travel Grant [T4393]

Established in recognition of an innovative student fee protocol put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7th with a completed Financial Need Assessment Form and include one-page description of the intended travel. ACCESS AWARD.

**Donor(s):** Ontario University Registrars' Association (OURA) with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $350

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### Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]

The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government's OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD.

**Donor(s):** The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards of varying amounts to a maximum of $1,000

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### University of Guelph Travel Scholarships [T0421]

The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.

**Donor(s):** University of Guelph

**Qualification(s):** Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.

**Amount:** Several awards up to $1,500
Bachelor of Bio-Resource Management Degree

Please refer to the General Statement on Awards for:

- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

Entrance Scholarships

1961-1964 Redmen Football Scholarships [E0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipients(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.
Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [E0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

AI Singleton Hockey Scholarships [E0687]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [E0663]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Allen Keele
Qualification(s): Entering student-athlete who is a member of the Varsity track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

Amos & William Lowe Memorial Scholarship [E0158]
Endowed by the late William B. Lowe of Fort Francis, Ontario. Preference will be given first to eligible students from the district of Rainy River, then from the district of Kenora or Thunder Bay, and finally from the remaining districts of Northern Ontario. Application is not required.

Donor(s): William B. Lowe and Amos Edgar Lowe
Qualification(s): Student entering any of the undergraduate degree programs of the Ontario Agricultural College.
Amount: 1 award of $1,250

Angelo and Frank Agro Undergraduate Scholarship [E0520]
These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4-H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership role(s) in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

Donor(s): The Frank Agro Estate
Qualification(s): Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4H projects.
Amount: 8 awards of $7,000 (payable over 4 years of study)

Bachelor of Bio-Resource Management KCF Scholarship – Equine [E0661]
Selection includes equally weighted consideration of admission average and community and high school activities that demonstrate interest and experience in the equine field. Apply by April 15 to the Chair, OAC. Kemptville Campus Awards Committee, providing a maximum two page description of extra-curricular and community activities relating to equine. Recipients will receive $500 in semester one and an additional $500 in semester two, conditional upon achieving at least a 60% overall average in semester one.

Donor(s): Kemptville College Foundation
Qualification(s): Students entering the BBRM-Equine Degree program with a minimum 75% admission average.
Amount: 1 award of $1,000

Barry Lee Scholarship for Agricultural Excellence [E0797]
Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

Donor(s): The Regional Municipality of Halton
Qualification(s): Students entering any undergraduate program offered by OAC.
Amount: 1 award of $1,000

Board of Governors’ Scholarships [E0317]
The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

Donor(s): Board of Governors
Qualification(s): Academically outstanding students entering semester 1 with the highest admission averages of the entering cohort.
Amount: 25 award of $8,000 (payable over 4 years of study)

Bob & Joyce Brooks Football Scholarships [E0691]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. No application is necessary.

Donor(s): Mrs. Joyce Brooks
Qualification(s): Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Coach Rudy Florio Football Scholarship [E0737]
Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. Rudy Florio
Qualification(s): Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Note: Last Revision: Oct. 19, 2012
Dr. C. John Small Commonwealth Scholarship [I0611]
Established in honour of Dr. C. John Small, O.A.C. BSA ’42, Hon. D. Law ’75, and his lifelong dedication to foreign service. Selection will be based on the assessment of: (a) a one-page submission describing the significance for the student visiting Guelph to the program of study at the partner exchange University, (b) two faculty references of not more than one-page each, and (c) consistent high performance in course work completed, as documented by a transcript of program grades to date. Apply to the Centre for International Programs by May 1 for visiting during the subsequent Fall or Winter semesters with the above mentioned documents.

Donor(s): Mrs. Jean K. Small
Qualification(s): Full-time visiting exchange students registered for at least one semester from a Commonwealth developing country who are pursuing studies or conducting research in the area of agriculture and rural development.
Amount: 1 award of $1,500

Ernie Kendall Science Entrance Scholarship [E0668]
Established by Ernest Kendall, O.A.C. B.S.A. 1932 and awarded to the student entering a science program with the highest admission average. Preference will be given to students that graduated from Elmira District School. This award is not tenable with the President's Scholarships, the Lincoln Alexander Scholarships or the Board of Governors Scholarships. Application is not required.

Donor(s): Ernest W. Kendall
Qualification(s): Students entering any sciences (B.Sc., B.Sc.(Agr.), B.Sc.(Env.), B.Sc.(Tech), B.A.Sc., B.A.S., B.B.R.M., B.Eng.) degree program with a minimum 80.0% admission average.
Amount: 1 award of $2,000

Dr. Jack Britney Scholarship [E0934]
Established in memory of Dr. Jack Britney, a graduate of ’57A and O.A.C. ’60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to Graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.

Donor(s): Friends and Associates
Qualification(s): Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph.
Amount: 1 award of $1,000

Football Endowment Fund (FEF) Scholarship [E0644]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Various University of Guelph donors
Qualification(s): Entering student-athlete who is a member of the Men's football team and has achieved a minimum 80% admission average.
Amount: various awards of $750 to $3,500

Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]
Coaches will nominate recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the Varsity Cross / Country or Track and Field Team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

George A. Gray O.A.C. ’51 Varsity Scholarships [E0487]
Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

Donor(s): Mrs. George A. Gray
Qualification(s): Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
Amount: 2 awards of $1,250

Elaine Scott-Thomas Track and Field Scholarship [E0706]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Dave Scott-Thomas CBS BSc ’88
Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,500

Emery Family Scholarship [E0736]
Established by John Emery, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. John Emery
Qualification(s): Entering student-athlete who is a member of a varsity team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Embry Family Scholarship [E0736]
Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Ernest Kendall
Qualification(s): Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.
Amount: 2 awards of $1,350

Ernie Kendall Science Entrance Scholarship [E0668]
Established by Ernest Kendall, O.A.C. B.S.A. 1932 and awarded to the student entering a science program with the highest admission average. Preference will be given to students that graduated from Elmira District School. This award is not tenable with the President's Scholarships, the Lincoln Alexander Scholarships or the Board of Governors Scholarships. Application is not required.

Donor(s): Ernest W. Kendall
Qualification(s): Students entering any sciences (B.Sc., B.Sc.(Agr.), B.Sc.(Env.), B.Sc.(Tech), B.A.Sc., B.A.S., B.B.R.M., B.Eng.) degree program with a minimum 80.0% admission average.
Amount: 1 award of $2,000

Gord and Christel Baldauf Men's Basketball Scholarship [E0639]
Established by Christian Baldauf, BSc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. Christian Baldauf
Qualification(s): Student-athlete entering the BSc program who is a member of the varsity Men’s Basketball team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Gordon W. Innes Scholarship [E0140]
Application is not required.

Donor(s): Gordon W. 'Sparks' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.
Qualification(s): Student entering any degree program from Oxford County with the highest admission average.
Amount: 1 award of $1,400

Gryphon Athletic Scholarships [E0631]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): University of Guelph
Qualification(s): Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
Amount: various awards of $750 to $3,500

Hardy International Student Scholarship [E0659]
Selection is based on the assessment of the student's admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required.

Donor(s): Mrs. Marion Hardy
Qualification(s): Full-time international students (defined as paying the international student tuition and fees) entering any degree program.
Amount: 1 award of $3,000
International Student Entrance Scholarships [E0408]

In support of the University's strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is not required.

Donor(s): University of Guelph
Qualification(s): Students on a "student visa" entering an undergraduate degree program at the University of Guelph with a record of high academic achievement and extracurricular involvement, and studying full-time. This award is offered for the first year of study.
Amount: Several awards ranging in value from $500 - $6,000

J.D. MacLachlan Scholarship [E0170]

Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.

Donor(s): The J.D. MacLachlan Trust
Qualification(s): Students entering any degree program at the University of Guelph.
Amount: 1 award of $1,500

Jack and Lillian MacDonald Scholarship [E0379]

Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

Donor(s): Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald
Qualification(s): Entering students coming from the Six Nations Polytechnic (SNP).
Amount: 1 award of $900

James and Shirley MacDonald Entrance Scholarship [E0807]

James MacDonald, OAC '50 was a past principal at Ridgetown College, now known as the Ridgetown Campus of the University of Guelph. Selection will be based on highest admission average. No application is required.

Donor(s): James and Shirley MacDonald
Qualification(s): Students entering the Environmental Management Major of the Bachelor of Bio-Resource Management program.
Amount: 1 award of $1,000

Kelly Bertrand Cross Country Scholarship [E0684]

The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Kelly Bertrand
Qualification(s): Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.
Amount: 1 award of $2,000

Larry Pearson Men's Volleyball Athletic Scholarships [E0618]

Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men's varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Larry Pearson
Qualification(s): Entering student-athlete who is a member of the men's varsity volleyball team and who has achieved a minimum 80% admission average.
Amount: several awards up to $3,500

Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [E0732]

Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Maryam Latifpoor-Keparoutis
Qualification(s): Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,200

Lincoln Alexander Scholarships [E0689]

Established in 2001 in honour of Lincoln Alexander, Chancellor Emeritus of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This award cannot be held with the President's Scholarships, the Pamela Wallin Chancellor's Scholarships or the Board of Governors' Scholarships.

Donor(s): Many Donors
Qualification(s): Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and communities. In addition, students must be: Aboriginal; or a person with a disability; or a member of a racial minority.
Amount: 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

Lloyd Dorr Memorial Hockey Scholarship [E0708]

Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. No application is necessary.

Donor(s): Family and Friends of the late Lloyd Dorr
Qualification(s): Entering student-athlete who is a member of the men’s varsity hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,000

McArthur-Humphries Scholarship [E0183]

An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county. These scholarships are awarded to students with the highest admission averages. Application is not required.

Donor(s): Wilhelmina McArthur-Humphries Trust Fund
Qualification(s): Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.
Amount: 12 awards of $1,000

Men’s Basketball Scholarships [E0638]

Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Anonymous (Alumnus)
Qualification(s): Entering student-athlete who is a member of the varsity Men’s Basketball team and who has achieved a minimum 80% admission average.
Amount: 4 awards of $2,500

Men’s Soccer Alumni Scholarship [E0771]

Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

Donor(s): Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon men’s soccer team with a minimum 80% admission average.
Amount: several awards ranging in value from $1,000 to $3,500

Moulton-Hutchinson Family Track and Field Scholarship [E0705]

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): The Moulton and Hutchinson Families
Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

This award has been established to support the Bachelor of Bio-Resource Management program. Students should apply by April 15 to Student Financial Services with a letter outlining career aspirations, extracurricular and community involvement in equine related activities.

**Donor(s):** Class of O.A.C. ’49 O.A.C. Alumni Foundation

**Qualification(s):** Students entering the first semester of the Equine major of the BBRM program with a minimum 75% admission average.

**Amount:** 2 awards of $2,500

O.A.C. ’49 Bachelor of Bio-Resource Management Entrance Scholarships [E0585]

This award has been established to support the Bachelor of Bio-Resource Management program. Students should apply by April 15, to Student Financial Services with a letter outlining career aspirations, extracurricular and community involvement in agri-food related activities.

**Donor(s):** Class of O.A.C. ’49 O.A.C. Alumni Foundation

**Qualification(s):** Students entering the first semester of the BBRM program with a minimum 75% admission average.

**Amount:** 2 awards of $2,500

Ontario Institute of Agrologists’ Mike Jenkinson Memorial Scholarship [E0738]

Established to honour Mike Jenkinson (OAC BSA 1963) who demonstrated and promoted professionalism in agriculture through his work and involvement in OIA. Selection will be based on development of professional skills as demonstrated by attendance or presentations at conferences or workshops, participation in or leadership on committees, organizations, etc., involvement in business ventures, volunteering, mentoring or community involvement. Preference will be given to students entering from the High Skills Agriculture Program at the high school level and if no applications are received from this program, selection will be based on the highest admission average. Apply by April 15th to the OAC Awards Office with a letter of no more than 2 pagesoutlining attendance or presentations at conferences or workshops, participation in or leadership on committees, organizations, etc., involvement in business ventures, volunteering, mentoring or community involvement. Please indicate whether the High Skills Agriculture Program has been taken in high school.

**Donor(s):** Ontario Institute Of Agrologists

**Qualification(s):** Students entering any OAC degree program with a minimum 80% admission average.

**Amount:** 1 award of $1,000

Pamela Wallin Chancellor’s Scholarships [E0688]

Established in 2009 in honour of Pamela Wallin, Chancellor of the University of Guelph and considered one of the most prestigious entrance awards at the University of Guelph. This scholarship will be based on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.

**Donor(s):** University of Guelph

**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have taken a leadership role in activities that demonstrate an interest in international relations and development and who indicate an ongoing desire to gain a broader subject knowledge through course work and/or engagement in the discipline and demonstrate the potential to become leaders in society.

**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistants)

President’s & Chancellor’s Finalists Scholarship [E0651]

Established in recognition of demonstrated academic excellence, leadership ability and participation in the President's and Chancellor's Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President’s or Chancellor’s Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.

**Donor(s):** Provost, and Vice-President Academic of the University of Guelph

**Qualification(s):** Students entering any degree program who have been interviewed for consideration for a President's or Chancellor's Scholarship.

**Amount:** several awards of $500

President’s Scholarship [E0238]

Established in 1987 in honour of their donors or distinguished members of the University and are considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the Lincoln Alexander Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

**Donor(s):** A number of President’s Scholarships have been named in honour of the following people and/or donors: Cecil H. Franklin and Ingrid Franklin

In honour of Cecil Franklin, former Chair of the Board of Governors and Honorary Fellow of the University, the University of Guelph has named one of these twelve prestigious entrance awards to recognize his financial contributions and volunteer support to the President’s Entrance Scholarship program.

Charles S. Humphrey

In memory of Charles S. Humphrey, a former President of Hart Chemical Company Canada Ltd. and long-time friend, the University has named one of these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President’s Entrance Scholarship program.

Jack R. Longstaffe

The University of Guelph has named one of these twelve prestigious entrance awards in memory of Jack R. Longstaffe to recognize his financial contribution through his estate to the President’s Entrance Scholarship program.

Burtin C. Matthews

The University of Guelph has named one of these twelve prestigious entrance awards in honour of Burton C. Matthews to recognize his insight and leadership in establishing the President’s Entrance Scholarship program.

Kathleen and Frederick Metcalf

Mr. and Mrs. F.T. Metcalf of Guelph have endowed this award. After a distinguished career in cable TV, broadcasting and publishing, the late Mr. Metcalf retired as President of Maclean Hunter Ltd. and Chairman of the Board of Maclean Hunter Cable Ltd. He was Honorary Chairman of Maclean Hunter Cable Ltd. and a member of the University of Guelph Heritage Board (1996).

Rol-land Farms Limited

Two of the scholarships are endowed by the four shareholders of Rol-land Farms Limited of Blenheim, Ontario, Hank, Peter, Arthur and Eric Vander Pol and their families. The Vander Pol families are generous supporters of a number of University projects and programs.

Lillian Stewart Usher

The University of Guelph has named one of these twelve prestigious entrance awards in honour of Lillian Stewart Usher a friend of the University to recognize her financial contribution through her estate to the President’s Entrance Scholarship program.

**Donor(s):** A number of President’s Scholarships have been named in honour of the following people and/or donors:

**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and/or communities.

**Amount:** 8 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistants)

Professor Victor Matthews Track and Field Scholarships [E0707]

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors

**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.

**Amount:** up to 10 $3500 each

Quinn Memorial Scholarship [E0578]

Established in memory of Ronald J. Quinn (O.A.C. ’35) to an entering O.A.C. international full-time or exchange student. Selection will be based on academic performance, letters of reference and an assessment of the admission application package. Application is not required.

**Donor(s):** Mrs. Helen Quinn (O.A.C. ’35

**Qualification(s):** Entering semester one of an O.A.C. program to an international full-time student or to an international exchange student with a preference to those students from developing nations.

**Amount:** 1 award of $1,500
IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachel Cliff Scholarship [E0790]</td>
<td>1 award of $1,500</td>
<td>Entering student-athlete who is a member of the Women’s Middle Distance Team and a distance runner who has achieved a minimum 80% admission average.</td>
<td>Mr. Ronald &amp; Nancy Cliff</td>
</tr>
<tr>
<td>Sprung Family Men’s Basketball Scholarship [E0672]</td>
<td>1 award of $3,500</td>
<td>Entering student-athlete who is a member of the Men's basketball team and who has achieved a minimum 80% admission average.</td>
<td>Mr. Timothy Sprung</td>
</tr>
<tr>
<td>Ted Morwick Scholarship [E0796]</td>
<td>1 award of $8,000 (payable over four years.)</td>
<td>Students entering any degree program in the College of Arts.</td>
<td>Mr. Edward (Ted) Morwick</td>
</tr>
<tr>
<td>Tom Mooney Scholarship [E0709]</td>
<td>Numerous awards ranging in value from $1,000 to $3,500</td>
<td>Students entering any degree program in the College of Arts. and registered in year one of any degree program at the University of Guelph.</td>
<td>Various Donors</td>
</tr>
<tr>
<td>TSC Stores Scholarship in Memory of Gordon Illes [E0731]</td>
<td>1 award of $1,000</td>
<td>Students entering any degree program at the University of Guelph.</td>
<td>TSC Stores L.P. (TSC)</td>
</tr>
<tr>
<td>University of Guelph Entrance Scholarships [E0291]</td>
<td>Several awards of $2,000, Several awards of $3,000</td>
<td>Students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average.</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>University of Guelph Faculty Association Scholarship [E0292]</td>
<td>1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)</td>
<td>Entering student-athlete who is a member of the Men's basketball team and who has achieved a minimum 80% admission average.</td>
<td>Dr. William P. Weber</td>
</tr>
<tr>
<td>Walter and Halina Slabikowski Scholarship [E0766]</td>
<td>1 award of $1,000</td>
<td>Students entering first year of any undergraduate program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.</td>
<td>Irene Thompson and Slabikowski Family</td>
</tr>
<tr>
<td>Walter and Halina Slabikowski Scholarship [E0766]</td>
<td>1 award of $1,000</td>
<td>Students entering first year of any undergraduate program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.</td>
<td>Irene Thompson and Slabikowski Family</td>
</tr>
<tr>
<td>Waterloo-Wellington Science &amp; Engineering Fair (WWSEF) Scholarship [E0619]</td>
<td>1 award of $1,000</td>
<td>Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships [E0703]</td>
<td>Various awards ranging in value from $750 to $3,500</td>
<td>Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.</td>
<td>Mrs. Irene McEwen</td>
</tr>
<tr>
<td>William P. Weber Football Scholarship [E0634]</td>
<td>1 award of $2,500</td>
<td>Students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average.</td>
<td>Dr. William P. Weber</td>
</tr>
</tbody>
</table>

Note: Scholarships and awards vary with qualifications, donors, and availability. Students are encouraged to explore these opportunities further for eligibility criteria and application details.
Entrance Scholarships with Financial Need

**Bill Klopp Memorial Scholarship [E0150]**

Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

**Donor(s):** Ross and Mary Lou Klopp  
**Qualification(s):** Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.

**Amount:** 1 award of $500

**Devine Family Scholarships [E4542]**

On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government’s OTSS program, established these two awards for a diversity of students from the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the “Devine Family Scholarship Application”. Deadline to submit the complete application (both parts, the E.N.A.F and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President’s Scholarship or the Lincoln Alexander Chancellor’s Scholarship, but can be held with all other entrance awards.

**Donor(s):** Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability and/or are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $30,000 (payable over 4 years of study)

**Interhall Council Entrance Scholarship [E0636]**

Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.

**Donor(s):** Interhall Council  
**Qualification(s):** Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability.

**Amount:** 3 awards of $1,250

**John Embry Family Scholarship [E4549]**

Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

**Donor(s):** Mr. John Embry with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $3,500

**Kenneth O. Hammill-Blount Canada Scholarship [E4356]**

Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government’s OTSS program. Selection will be based on greatest financial need from the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who submitted an application for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) by April 15.

**Donor(s):** The Blount Foundation, Inc. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Entering students who have applied for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships who are interviewed, but not successful in the competition with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $9,600 (payable in 8 payments of $1,200)

**Landoni Athletic Scholarship [E4405]**

Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Student must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD.

**Donor(s):** Peter Landoni with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,000

**Norman L. Gubbins Microbiology Scholarship [E4392]**

Established through a generous bequest from Norman L. Gubbins, with the assistance of the Ontario government’s OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

**Donor(s):** Family, friends and colleagues of Norman Gubbins with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students entering the Microbiology major in the B.Sc. program with a minimum 85% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $1,000
### P.A.J. Clarke Family Scholarship [E0381]
Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.). This award is not tenable with the President's Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

**Donor(s):** Paul and Aileen Clarke  
**Qualification(s):** Students with a minimum 80% average and a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm.

**Amount:** 1 award of $12,000 (payable over 4 years)

### Robert C. Skipper Scholarship [E0485]
Established by Robert C. Skipper, Diploma in Agriculture 1948 and B.S.A. 1951. Selection will be based on academic standing, participation in extra-curricular activities and involvement in primary production and/or rural community activities. Financial need may also be considered. Apply to Student Financial Services by April 15 with a one-page summary outlining activities and by completing the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.).

**Donor(s):** Mr. Robert C. Skipper  
**Qualification(s):** Students entering a degree program in O.A.C. that have graduated with a Diploma in Agriculture or Horticulture from the University of Guelph's Kemptville or Ridgetown campuses.

**Amount:** 1 award of $1,000

### Rol-Land Farms Scholarships [E4519]
Established by Rol-Land Farms, with the assistance of the Ontario government's OSOTF program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

**Donor(s):** Rol-Land Farms with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students entering a degree program with demonstrated financial need and a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 13 awards of $2,000

### Spitzig Entrance Scholarship in Economics [E4543]
A graduate (1986) of the B.A. Economics program has established these scholarships with the assistance of the Ontario government's OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

**Donor(s):** Anonymous with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $4,500

### W. F. Mitchell Athletic Scholarship [E4550]
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

**Donor(s):** The Mitchell Family with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

### Entrance Bursaries

#### Elizabeth Maud Hunter (Shier) Bursary [E3575]
This award was created to assist first year students in obtaining a post secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards.

**Donor(s):** The Estate of the Late William Henry "Harry" Hunter with matching funding through the University of Guelph  
**Qualification(s):** Students entering any degree program at the University of Guelph with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 3 awards of up to $4,500

#### First Year Student Residence Bursary [E3066]
These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15.

**Donor(s):** Student Housing Services  
**Qualification(s):** Students entering any degree program with demonstrated financial need.

**Amount:** 5 awards of $300

#### Fred Hindle Bursary [E3500]
Awarded in memory of Fred Hindle, O.A.C.'38, a long-time generous supporter of his Alma Mater, who at the time of his death, wanted future students to have the same opportunity for an education as he had received. This bursary is awarded with the assistance of the Ontario government’s OSOTF program. This bursary is dependent on continued demonstration of financial need and successful completion of study to advance into the next year. Students should complete the online Financial Need Assessment Form (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

**Donor(s):** W. Roy Hindle and family with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students graduating from a Diploma in Agriculture or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15.

**Amount:** 1 award of $6,000 (payable over 4 years)

#### Harvey Graham Bursary [E3030]
Provided by Harvey Graham (O.A.C. '39), Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15.

**Donor(s):** Harvey Graham, O.A.C. '39  
**Qualification(s):** Student who has demonstrated financial need with preference given to a student who comes from a working farm. Students graduating from Lindsay C. V. I., Fenelon Falls Secondary School , or I. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student's home township.

**Amount:** 1 award of $1,200

#### International Student Entrance Bursaries [E3043]
In support of the University's strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar's Entrance Award Application to Student Financial Services.

**Donor(s):** University of Guelph  
**Qualification(s):** Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.

**Amount:** Several awards ranging in value from $1,000 to $3,000
Registrar’s Entrance Bursaries [E0384]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Bursary, but can be held with all other entrance awards.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.  
**Amount:** 500 awards of $2,000

Robert Arthur Stewart Bursaries [E3272]

Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

**Donor(s):** The Estate of Mrs. H. Stewart  
**Qualification(s):** Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.  
**Amount:** 12 awards of $500

University of Guelph Accessibility Bursaries [E3038]

Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Bursary, but can be held with all other Entrance Awards.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.  
**Amount:** 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

In-course Scholarships

1961-1964 Redmen Football Scholarships [I0770]

Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Dr. Robert Keith (c/o 1961-1964 Football Committee)  
**Qualification(s):** Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.  
**Amount:** several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [I0769]

Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men's Cross Country team)  
**Qualification(s):** Current member of the Gryphon Men’s Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete  
**Amount:** 1 award of $1,500

Al Singleton Hockey Scholarships [I0687]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** 1957-58 OA-VC Redmen Championship Hockey Team  
**Qualification(s):** Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.  
**Amount:** Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [I0663]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Allen Keele  
**Qualification(s):** In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** 1 award of $1,350

Bill Taylor Memorial Scholarship [I0280]

Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.

**Donor(s):** AMF Canada Ltd.  
**Qualification(s):** Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or intercollegiate athletics.  
**Amount:** 1 award of $900

Bob & Joyce Brooks Football Scholarships [I0691]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Mrs. Joyce Brooks  
**Qualification(s):** Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.  
**Amount:** Numerous awards ranging in value from $750 to $3,500

Canadian Agri-Marketing Association (Ontario) Scholarship [I0541]

Provided by the Canadian Association of Agri-Marketing Association (Ontario). Apply to the O.A.C. Awards Committee by May 15 with a summary of participation in the Ag Ec & Biz Society and in agri-marketing initiatives as well as a letter of recommendation from a faculty member.

**Donor(s):** Canadian Agri-Marketing Association (Ontario)  
**Qualification(s):** Student who has competed a minimum of 10.0 credits with a minimum cumulative average of 70% who are members of O.A.C. and the Ag Ec & Biz Society. Selection will be based on a combination of academic achievement and a demonstrated interest in agri-marketing.  
**Amount:** 1 award of $1,000

CFRU Volunteer Award [I0215]

Apply to the CFRU Board of Governors by April 30.

**Donor(s):** Station Manager, CFRU  
**Qualification(s):** Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU.  
**Amount:** 2 awards of $250
### IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Qualifications</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class of 1970 Scholarship [I0424]</td>
<td>Established by the Silver Anniversary celebrants to commemorate the 25th anniversary of the University Class of 1970. This award rotates among all six colleges on the main campus. The appropriate College Award Committee selects the candidate each Fall semester and the candidate is announced each October. Application is not required.</td>
<td>1 award of $900</td>
</tr>
<tr>
<td>Coach Rudy Florio Football Scholarship [I0737]</td>
<td>Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.</td>
<td>Mr. Rudy Florio</td>
</tr>
<tr>
<td>Collins Barrow Award [I0040]</td>
<td>Offered by Collins Barrow, a national firm of Chartered Accountants. Application is not required.</td>
<td>Collins Barrow Chartered Accountants</td>
</tr>
<tr>
<td>David F. Boyes Apiculture Scholarship [I0031]</td>
<td>Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application is not required.</td>
<td>The Apiculture Club</td>
</tr>
<tr>
<td>Deans' Scholarships [I0323]</td>
<td>This award was established by the Board of Governors’ in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application is not required.</td>
<td>Board of Governors</td>
</tr>
<tr>
<td>Douglas M. Robinson Memorial Prize for Excellence in Communications [I0409]</td>
<td>In memory of Douglas Robinson (O.A.C.'53), and in conjunction with the establishment of an innovative curriculum in agricultural science at the University of Guelph in 1995, the Innovative Farmers' Association of Ontario and the Robinson family provide this annual prize. Apply by May 15th to the OAC Awards Office, Johnston Hall with a letter describing how these courses have helped to communicate effectively and indicate ways in which the courses have been used to contribute to success. A letter from the course instructor would also be considered. Selection will be based on demonstrated excellence in communication.</td>
<td>The Innovative Farmers Association of Ontario</td>
</tr>
<tr>
<td>Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [I0695]</td>
<td>Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.</td>
<td>Various Donors</td>
</tr>
<tr>
<td>Dr. R. J. Hilton Memorial Scholarship [I0678]</td>
<td>Established to honour the accomplishments of Dr. Hilton as the Chair, Horticulture Science, University of Guelph, first Director of the Arboretum and President/Chair of the Royal Botanical Gardens. Selection will be based on the highest cumulative average, demonstrated involvement in horticulture activities and involvement in academic club activities. Summer related work experience will also be considered. Preference will be given to students registered in B.Sc.(Agr.) CHATS and B.Sc. Plant Science. Apply by May 15 to the O.A.C. Awards Office with a letter outlining the plant agriculture course(s) and involvement in horticulture activities and summer related work experience or information about involvement in academic club activities.</td>
<td>Robert E. Hilton</td>
</tr>
<tr>
<td>Elaine Scott-Thomas Track and Field Scholarship [I0706]</td>
<td>The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.</td>
<td>Dave Scott-Thomas CBS BSc '88</td>
</tr>
<tr>
<td>Embry Family Scholarship [I0736]</td>
<td>Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.</td>
<td>Mr. John Embry</td>
</tr>
<tr>
<td>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [I0627]</td>
<td>Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>Ernest Kendall</td>
</tr>
<tr>
<td>Football Endowment Fund (FEF) Scholarship [I0644]</td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>Various University of Guelph donors</td>
</tr>
</tbody>
</table>

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**Last Revision: Oct. 19, 2012**

**2012-2013 Undergraduate Calendar**
### George A. Gray O.A.C. ’51 Varsity Scholarships [I0487]

Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

**Donor(s):** Mrs. George A. Gray  
**Qualification(s):** In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** 2 awards of $2,125

### George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [I0677]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** George Ames  
**Qualification(s):** In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** 1 award of $3,500

### Gerd and Christel Baldauf Men’s Basketball Scholarship [I0639]

Established by Christian Baldauf, BSc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. Christian Baldauf  
**Qualification(s):** In-course student-athlete registered in the BSc. program who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** 1 award of $3,500

### Governor General’s Medal [C0044]

Established by the Office of the Governor General of Canada. Application is not required.

**Donor(s):** The Chancellery  
**Qualification(s):** Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.  
**Amount:** 2 awards of a Silver medal each

### Gryphon Athletic Scholarships [I0631]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** University of Guelph  
**Qualification(s):** In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** various awards of $750 to $3,500

### International Undergraduate Scholarship [I0577]

Established through a student referendum approved by the undergraduate student body, to recognize international students’ academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University and two academic and/or professional references. This award can only be held once by the student.

**Donor(s):** International Student Organization (ISO)  
**Qualification(s):** Full-time International students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%.  
**Amount:** 2 awards of $2,000

### Jack and Lillian MacDonald Scholarship [E0379]

Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education for aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald  
**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).  
**Amount:** 1 award of $900

### Joerg and Franzis Leiss Horticultural Scholarship [I0565]

Selection will be based on the highest cumulative average in the horticulture (HORT) courses normally taken in years 1 and 2. In the event of a tie, financial need may be considered. Application is not required.

**Donor(s):** Mr. Joerg Leiss, O.A.C. ’63  
**Qualification(s):** Students with a minimum cumulative average of 75% who have completed at least 10.0 credits and are currently registered in the Bachelor of Science in Agriculture with a major in Horticultural Science or Environmental Science.  
**Amount:** 1 award of $1,500

### John Burton Scholarship [I0642]

Established by Dr. John Burton, BSA 1962, a former faculty member in the Department of Animal and Poultry Science. Selection will be based on involvement with and contribution to the horse industry, future career aspirations in the horse industry sector and participation in community activities. Preference will be given to student who have demonstrated leadership ability within the student body. Apply by May 15 to the OAC Awards Office with a letter, of no more than two-pages, outlining involvement with and contributions to the horse industry, career aspirations, and extracurricular involvements. Awarded in the fall semester.

**Donor(s):** Dr. John Burton  
**Qualification(s):** Students registered in any program offered by the OAC who have completed between 10.0 and 12.0 credits with a minimum 70% average  
**Amount:** 1 award of $1,000

### John Eccles Scholarship [I0093]

Apply to Student Financial Services, by May 15, with a letter highlighting leadership abilities through participation on residence life. Providing a reference letter would be an asset.

**Donor(s):** Student Housing Services  
**Qualification(s):** Full-time student registered in semester 2, 3, 4, 5 or 6 and living in residence in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.  
**Amount:** 1 award of $600

### Kelly Bertrand Cross Country Scholarship [I0684]

The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletics Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand  
**Qualification(s):** Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.  
**Amount:** 1 award of $2,000

### Kenneth W. Hammond Prize [I0045]

The evaluation of the student will be based on the final essay in the "Environmental Perspectives and Human Choice: 5000 Days" course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

**Donor(s):** Kenneth W. Hammond  
**Qualification(s):** Student who has best demonstrated an understanding of the world’s resource situation and its proper use by humankind.  
**Amount:** 1 award of $1,000
Kevin Durie Memorial Scholarship [I0653]
Established in memory of Kevin Durie, BA ’93, by his family and friends. Selection will be based on demonstration of outstanding service as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

**Donor(s):** Christine Blake-Durie

**Qualification(s):** Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.

**Amount:** 1 award of $1,000

Kip Hunter Prize [I0139]
For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

**Donor(s):** Faculty, students and staff of the Philosophy Department

**Qualification(s):** Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.

**Amount:** 1 Book prize

Lambda Foundation Scholarship in LBGT Studies [I0591]
This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a given student only once. Projects must have been completed or research proposals accepted within the past calendar year. Apply to the Dean of Arts by December 15th including the research proposal or completed project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.

**Donor(s):** Lambda Foundation and other donors

**Qualification(s):** Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.

**Amount:** 1 award of $1,000

Larry Pearson Men’s Volleyball Athletic Scholarships [I0618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson

**Qualification(s):** In-course student-athlete who is a current member of the men’s varsity volleyball team and has achieved a minimum 70% average in the previous academic year.

**Amount:** several awards up to $3,500

Lloyd Dorr Memorial Hockey Scholarship [I0708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. No application is necessary.

**Donor(s):** Family and Friends of the late Lloyd Dorr

**Qualification(s):** Current member of the men’s varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,000

Men’s Basketball Scholarships [I0638]
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Anonymous (Alumnus)

**Qualification(s):** In-course student-athlete who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 4 awards of $2,500

Men’s Soccer Alumni Scholarship [I0771]
Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)

**Qualification(s):** Current member of the Gryphon Men’s Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** several awards ranging in value from $1,000 to $3,500

Nathan Max Goldman Choir Scholarships [I0774]
Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and/or the Chamber Choir. One award will be available to a student in each choir and will be given to the candidate who best combines high vocal achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required as a recommendation by Choir Director will be made to the SOFAM Awards Committee.

**Donor(s):** Mrs. Anne Goldman and the family of Nathan Max Goldman

**Qualification(s):** Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and/or the Chamber Choir and have been a member of the University of Guelph Choirs for at least two years.

**Amount:** 2 awards of $1,000

O.A.C. Students’ Federation Medal [C0217]
Application is not required.

**Donor(s):** O.A.C.

**Qualification(s):** Graduating student in an undergraduate degree program in a major in an O.A.C. department who has been an outstanding leader in student activities at the College level throughout his or her University career.

**Amount:** 1 award of a Medal

Priscilla and Stanford Reid Trust Prize [I0597]
Established in honour the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written about the history of Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.

**Donor(s):** Priscilla and Stanford Reid Trust Fund

**Qualification(s):** Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.

**Amount:** 1 award of $500
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Professional Staff Association Scholarship</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>Thomas H. Peters Scholarship</td>
<td>1 award of $250</td>
</tr>
<tr>
<td>Tom Mooney Scholarship</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>United Steelworkers Local 4120 Scholarship</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>University of Guelph Alumni Legacy Scholarship</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Van Stralen and Van Der Hoeven Memorial Scholarship</td>
<td>2 awards of $400</td>
</tr>
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</table>

### IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree

#### Professional Staff Association Scholarship [I0628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 by sending an email to awards@registar.uoguelph.ca and include the name of the family member of the Professional/Managerial Group of the University, and/or retired Professional/Managerial Group of the University of Guelph. This award may be held more than once, however, not in consecutive years. Preference will be given to students of current or retired P.S.A. members.

**Donor(s):** Professional Staff Association  
**Qualification(s):** Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University, and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.

**Amount:** 1 award of $1,500

#### Professor Victor Matthews Track and Field Scholarships [I0707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors  
**Qualification(s):** Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** up to 10 $350 each

#### Rachel Cliff Scholarship [I0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Ronald & Nancy Cliff  
**Qualification(s):** Current member of the Women’s Middle Distance Team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,500

#### Russell Athletic Scholarships [I0722]
The recipients will be selected based on demonstrated leadership qualities and contributions to the team. Coaches will nominate students to the Athletic Awards Committee. No application necessary.

**Donor(s):** H.D. Brown Enterprises Ltd.  
**Qualification(s):** Current members of a University of Guelph Varsity Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 4 awards of $2,500

#### Sprung Family Men's Basketball Scholarship [I0672]
Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Mr. Timothy Sprung  
**Qualification(s):** In-course student-athlete who is a current member of the Men’s basketball team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $3,500

#### Stephanie Wilken Volunteer Scholarship [I0449]
Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to Student Financial Services with letter indicating the kind and extent of volunteer activities at the Wellness Centre by October 1. Selection committee is the Senate Committee on Awards on the recommendation of the Student Wellness Educator at the Wellness Centre.

**Donor(s):** Bev and Darlene Wilken  
**Qualification(s):** Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre.

**Amount:** 1 award of $1,000

#### Thomas H. Peters Scholarship [I0233]
Application is not required.

**Donor(s):** Friends and associates of Thomas H. Peters  
**Qualification(s):** Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.

**Amount:** 1 award of $250

#### Tom Mooney Scholarship [I0709]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors  
**Qualification(s):** Current member of the varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $1,000 to $3,500

#### United Steelworkers Local 4120 Scholarship [I0293]
A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application is not required.

**Donor(s):** Mr. Jack Robinson  
**Qualification(s):** The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.

**Amount:** 1 award of $500

#### University of Guelph Alumni Legacy Scholarship [I0735]
Funded through donations made to the University of Guelph Alumni Memorial Fund in memory of deceased alumni. The recipient will be selected based on academic achievement and volunteer contributions to the University of Guelph community. Apply to Student Financial Services by May 15 with a cover letter indicating name, degree and year of graduation of alumna/us relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.

**Donor(s):** Various donors c/o University of Guelph Alumni Association Memorial Fund  
**Qualification(s):** Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with both a minimum cumulative average of 75% and demonstrated volunteer leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumna/us of the University of Guelph or its founding colleges.

**Amount:** 1 award of $1,000

#### Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]
Selection will be made on the basis of participation in university activities and in the student's home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

**Donor(s):** Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family  
**Qualification(s):** Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.

**Amount:** 2 awards of $400
IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree

W.C. Winegard Medal [C0311]
The W.C. Winegard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** The Board of Governors of the University

**Qualification(s):** Graduating student who excels both academically and in extracurricular activities.

**Amount:** 1 award of a Gold medal

W.N. Vaughan Medal [C0299]
Prospective candidates will be nominated by Senators and the medal will be awarded by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** Friends of Walter N. Vaughan

**Qualification(s):** Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.

**Amount:** 1 award of a Medal

William L. McEwen OAC '43 Men’s Varsity Hockey Scholarships [I0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mrs. Irene McEwen

**Qualification(s):** Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [I0634]
Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. William P. Weber

**Qualification(s):** In-course student-athlete who is a current member of the Men's Football team and achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $2,500

In-course Scholarships with Financial Need

3M Canada Scholarships [I0564]
Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** 3M Canada Company

**Qualification(s):** Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.

**Amount:** various award of up to $4,000

Brian Kenneth Howard Memorial Scholarship [I4548]
Established by Kenneth and Irene Howard in memory of their son, Brian Kenneth Howard. Awarded to a student assessed as having financial need with a preference given to students from York, Durham or Simcoe counties. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Kenneth and Irene Howard with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Student registered in any degree program with a minimum 75.0% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $2,700

City of Guelph 175th Anniversary Scholarship [I0515]
Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.

**Donor(s):** The Guelph Community Foundation

**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 70.0% cumulative average, demonstrated volunteer leadership on campus and/or in the community and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian citizens or permanent residents at the time of application.

**Amount:** 1 award of $2,000

Eleanor Morgan & Bill Archibald Scholarships [I4540]
The family of Eleanor and Bill Archibald, with the assistance of the Ontario government's OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** The Family of Eleanor & Bill Archibald

**Qualification(s):** Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, have demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).

**Amount:** 1 award of $1,000

Erin Demers Memorial Scholarship [I0406]
The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.

**Donor(s):** Family and friends of Erin Katrina Demers

**Qualification(s):** Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.

**Amount:** 1 award of $1,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [I4546]
Established by Ernest Kendall, O.A.C. BSA 1932, with the assistance of the Ontario government's OTSS program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award you must list it on your N.A.F. Selection will be made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD

**Donor(s):** Ernest Kendall with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students with demonstrated financial need who are members of the women's varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

Euclid-Hitachi Scholarships [I4517]
Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

Last Revision: Oct. 19, 2012

2012-2013 Undergraduate Calendar
Graham Family Incentive Scholarship [14506]
Provided by Harvey Graham (O.A.C. ’39) with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS Award

Donor(s): Harvey Graham O.A.C. ’39 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $4,000

John Embry Family Scholarship [14549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS Award

Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program
Qualification(s): Student-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $3,500

Landoni Athletic Scholarship [14405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS Award

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Nora Spence Memorial Scholarship [14394]
This scholarship was created by George and Jane Spence in memory of their daughter Nora Spence, O.A.C. BSc ’96 with the aid of the Ontario government’s OTSS program. Selection will be based on high academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS Award

Donor(s): Jane and George Spence with matching funding through the Ontario Trust for Student Support program
Qualification(s): BSc students registered in a major offered by O.A.C. who have a minimum cumulative average of 75% and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [10547]
Douglas (O.A.C. ’39) and Kathleen (MAC ’39) Kennedy met at a “hop” on campus in 1937 and later married. They established this scholarship to celebrate their time on campus and their 62 years of marriage. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy
Qualification(s): This scholarship will be awarded to a student in O.A.C. with high academic achievement and demonstrated financial need.
Amount: 1 award of $900

Residence Life Staff Scholarship [10697]
Selection will be made on the basis of demonstrated financial need and strong community involvement. Apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.

Donor(s): Student Housing Services
Qualification(s): Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position.
Amount: 2 awards of $500

Returning Student Residence Scholarship [10696]
Selection will be made on the basis of demonstrated financial need and strong community involvement. Apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is award is conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.

Donor(s): Student Housing Services
Qualification(s): Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.
Amount: 3 awards of $500

Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [E4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on leadership qualities, contributions to the team and financial need. Apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS Award.

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student athlete who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent, and demonstrated financial need.
Amount: various awards of up to $3,500

Tara Lynn Giuliani Memorial Scholarship [10375]
In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7.

Donor(s): The Giuliani Family
Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.
Amount: 1 varying amounts
### IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree

#### Tony and Anne Arrell Scholarships [I0686]

Tony Arrell, OAC Bsc (Agri) ’67 and Anne Arrell, MAC BHSC ’68 have established 20 in-course awards for students with financial need. Awards will be distributed so that all colleges are represented. Apply by October 7 with a completed Financial Need Assessment Form to Student Financial Services. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** Tony and Anne Arrell, Burgundy Asset Management  
**Qualification(s):** Students registered in any degree program who have completed a minimum of 2.0 credits with a minimum 80% cumulative average and demonstrated financial need. 
**Amount:** 20 awards of $5,000

#### University of Guelph Retiree Association Degree Scholarship [I0569]

The University of Guelph Retiree Association established this $1,500 scholarship in 2007 to acknowledge in-course student achievement. The student having the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last two semesters of full-time studies will be chosen. Apply by May 15th to Student Financial Services with a letter indicating name and relationship to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.

**Donor(s):** University of Guelph Retirees Association (U.G.R.A.)  
**Qualification(s):** Students with a minimum 75% cumulative average registered in a degree program who are related to a retiree of the University of Guelph as child, grandchild or great grandchild. 
**Amount:** 1 award of $1,500

#### W. F. Mitchell Athletic Scholarship [I4550]

Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** The Mitchell Family with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students who are a member of a varsity team who has achieved a minimum 70% average in the previous academic year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). 
**Amount:** 1 award of $1,350

#### William & Nona Heaslip Scholarship [I0589]

Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time (minimum 80% of a full course load) study. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** The William and Nona Heaslip Foundation  
**Qualification(s):** Students that have completed 4.0 credits but no more than 6.0 credits in any degree program; are a Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financial need. 
**Amount:** 2 awards of $15,000

### In-course Bursaries

#### Bette Stephenson Accessibility Bursary [I3054]

In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student’s advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

**Donor(s):** University of Guelph  
**Qualification(s):** Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents. 
**Amount:** 3 awards to a maximum of $1,500

#### Birks Family Foundation Bursary [I3002]

Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** Birks Family Foundation  
**Qualification(s):** Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures.  
**Amount:** 1 award of $1,000

#### Brinson Partners Inc. Bursaries [I3526]

Brinson Partners Inc., with the assistance of the Ontario government’s OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,500

#### Burnbrae Farms Bursaries [I3525]

Established by Burnbrae Farms, with the assistance of the Ontario government’s OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,500

#### Class of ’72: 25th Reunion Bursaries [I3512]

Established by the Class of ’72: 25th Reunion Fund with the assistance of the Ontario government’s OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Class of ’72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 3 awards of $1,000

#### Class of O.A.C. ’33 Bursaries [I3531]

Established by the class of O.A.C. ’33 on the occasion of their 65th Anniversary, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Class of 1933 (in honour of the late Prof. W.L. Squirrel) with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 3 awards of $500

#### Class of O.A.C. ’36 Bursaries [I3501]

Established by the Class of O.A.C. ’36 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Class of 1936 with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** An O.A.C. degree student enrolled in any degree program who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 1 award of $900

Last Revision: Oct. 19, 2012

2012-2013 Undergraduate Calendar
David R. Leach Memorial Bursary [I3534]

Provided in memory of David R. Leach by his family, with the assistance of the Ontario government's OSOTF program. David entered O.A.C. in 1969 as a member of O.A.C. '73 and graduated with a B.Sc. in Agriculture in 1974. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services and a letter from CSD confirming physical disability by October 7. ACCESS AWARD

Donor(s): Mrs Deborah Leach-Sartor with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): O.A.C. undergraduate degree or diploma student who is physically disabled as determined by the Centre for students with Disabilities, has satisfactory academic standing and who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $750

Elizabeth Burton Bursaries [I3503]

Mrs. Elizabeth Burton, with the assistance of the Ontario government’s OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

Donor(s): Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: Several awards of varying amounts

Gryphon Investment Council Bursaries [I3513]

Established by Gryphon Investment Counsel, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

Donor(s): Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,500

Guelph Compassionate Health and Dental Bursary [I3061]

This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.

Donor(s): Student Health and Dental Plan Reserve

Qualification(s): Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress.

Amount: Several varies to a maximum $1,500

Guelph Student Assistance ACCESS Bursaries [I3556]

These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: Several awards of varying amounts up to $1,000

Guelph Student Assistance Program [I3056]

These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Undergraduate Students

Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need.

Amount: Several awards of varying amounts up to $1,000

Gwen Karr Memorial Bursary [I3010]

Mr. T.K.C. Karr, O.A.C. ’32, has provided an endowment fund to assist students in a degree or diploma program of the Ontario Agricultural College. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Mr. T.K.C. Karr, O.A.C. ’32

Qualification(s): O.A.C. students with demonstrated financial need.

Amount: Several varies

Helen Mahon Memorial Bursary [I3063]

Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.

Donor(s): Family and Friends of Helen Mahon

Qualification(s): Students registered in any program who come from a family where one parent is deceased.

Amount: 1 award of $500

Howard and Myrtle Rogers Bursaries [I3537]

Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 10 up to $2,000
### International Emergency Medical Aid Assistance [I3059]

The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an ongoing basis.

**Donor(s):** University of Guelph  
**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.  
**Amount:** Several awards of varying amounts

### International Student Bursaries [I3009]

Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.

**Donor(s):** Mrs. Norma L. Valeriote  
**Qualification(s):** Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.  
**Amount:** Several awards of varying amounts

### Irvine and Grace Black Memorial Bursary [I3051]

Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people, Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women’s Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women’s Institute by October 7.

**Donor(s):** Family and friends of Irvine and Grace Black  
**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women’s Institute.  
**Amount:** 1 award of $500

### Mary I. Whitelock Bursaries [I3524]

Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government's OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 13 awards of $2,000

### Murray McEwen OAC Safe Water Bursary [I3573]

Selection will be based on the highest financial need. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form and a letter indicating which of the listed courses have been completed. ACCESS AWARD

**Donor(s):** Murray McEwen with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students registered in any major offered by OAC who have completed any two of the following courses: ENVS*3150 (Agricultural Systems), ENVS*3190 (Environmental Water Chemistry), ENVS*3290 (Waterborne Disease Ecology), ENVS*3080 (Soil and Water Conservation) and ENVS*3060 (Groundwater) with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 2 awards of $1,000

### Murray P. And Florence L. Hannah Bursaries [I3571]

Preference will be given to students from the County of Northumberland. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** Estate of Florence Hannah with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** OAC students registered in the BSc(Agr) or the BSc(Env) program who have completed a minimum of 4 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 2 awards of $1,000

### O.A.C. ’38 Lloyd Minshall Bursaries [I3529]

Established by O.A.C.’38 Alumni, with the assistance of the Ontario government’s OSOTF program, to recognize the many contributions of Lloyd Minshall to his classmates and to O.A.C. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** O.A.C. ’38 Alumni with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** O.A.C. undergraduate students with demonstrated financial need in semesters 5, 6, 7 or 8. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 4 awards of $1,800

### O.A.C. ’55 Access Bursaries [I3517]

Provided by the class of O.A.C. ’55 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** O.A.C. Class of ’55 with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students at any semester level in an O.A.C. degree program or students enrolled in the B.ENG. program with demonstrated financial need and a 60% minimum cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statement on Awards).  
**Amount:** 6 awards of $500

### O.A.C. ’57 Bursaries [I3518]

Provided by the Class of O.A.C.’57 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** O.A.C. ’57 and the O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** O.A.C. undergraduate degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 5 awards of $1,000

### O.A.C. Alumni Foundation Access Bursaries [I3533]

Provided by the O.A.C. Alumni Foundation, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 3 awards of $500
Ontario Co-operatives R.P. Forshaw Bursary [I3013]
The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.

Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw

Qualification(s): Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.

Amount: 1 award of $400

Ontario Grape Growers Bursary [I3033]
Offered by the Ontario Grape Growers Action Committee. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): The Ontario Grape Growers Action Committee

Qualification(s): Students with good academic standing in semesters 3 to 6 of a degree program or semesters 3 to 4 of a diploma program administered by O.A.C., and demonstrated need of financial assistance.

Amount: Several of various amounts

Robert Auger Humanitarian Bursary [I3058]
This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.

Donor(s): Office of Registrarial Services

Qualification(s): Students registered in a degree program.

Amount: Several grocery vouchers or book vouchers

Scotiabank Bursaries [I3532]
Established by Scotiabank, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,500

Shirley Endean Bursaries [I3570]
These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: Several awards of varying amounts

T.K. Warley Bursaries [I3510]
Established by O.A.C. Alumni Association, with the assistance of the Ontario government's OSOTF program, to recognize Professor T.K. Warley's significant contribution to the O.A.C. Alumni Foundation and to students through teaching and promotion/development of "Experience Agriculture". A degree student may receive this bursary twice. Apply by letter outlining extracurricular involvement and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

Donor(s): O.A.C. Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students with demonstrated financial need who are in semester 5 to 8 of any degree program within O.A.C. A minimum 65% is required, as is participation in student activities, governance, and/or college affairs. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,000

University of Guelph Access Bursaries [I3522]
Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Alumni and Friend of the University of Guelph with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: Several awards of $500, Several awards of $2,000

University of Guelph Alumni Association Access Bursaries [I3523]
Established by the University of Guelph Alumni Association, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,000

University of Guelph Child Care Bursaries [I3053]
In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph

Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need.

Amount: Several awards of up to $2,000

University of Guelph International Bursary [I3048]
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

Donor(s): University of Guelph

Qualification(s): Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.

Amount: Several varies
University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.
Donor(s): University of Guelph
Qualification(s): Ontario students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.
Amount: Several awards ranging in value from $1000 to $4,000

University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I3047]
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.
Donor(s): University of Guelph
Qualification(s): Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.
Amount: Several awards of a maximum of $500

University Police Bursaries [I3019]
The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.
Donor(s): The University Police
Qualification(s): Full-time undergraduate with demonstrated financial need.
Amount: Several of various amounts

University Student Assistance Program [I3057]
These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.
Donor(s): University of Guelph
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as the Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).
Amount: Several awards of various amounts to a maximum of $1,000

In-course Travel Grants

A.W. Archibald Memorial Travel Grant [T4541]
Mr. A.W. Archibald, O.A.C. '33 with the assistance of the Ontario government's OSOTF program, provide these travel grants to students who plan to travel for a semester abroad or to attend other schools outside of Canada for workshops or other academic related purposes. Apply to Student Financial Services with a letter outlining proposed travel plans and academic purpose accompanied by a letter of support from a faculty member or student advisor, and a Need-Based Travel grant application by October 7. ACCESS AWARD.
Donor(s): A.W. Archibald, O.A.C. '33 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Undergraduate students in any O.A.C. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: Several awards up to $1000

Aeroplan International Travel Grant [T0604]
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a "Travel Grant Need-based Application". Preference will be given to students participating in the semester abroad or academic exchanges. Award is subject to the availability of Aeroplan miles and may not be available every year.
Donor(s): Aeroplan
Qualification(s): Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.
Amount: 1 or more awards of a plane ticket

Arthur D. Latornell Undergraduate Travel Grants [T0058]
An endowment fund established in memory of Arthur D. Latornell, O.A.C. '50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op, student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.
Donor(s): The Estate of Arthur D. Latornell
Qualification(s): Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.
Amount: Several up to a maximum of $1000

Canada's Outdoor Farm Show Travel Grants [T3536]
Established by Canada's Outdoor Farm Show and the O.A.C. Alumni Foundation, with the assistance of the Ontario government's OSOTF program. Apply to Student Financial Services with a completed Need-Based Travel Grant application by February 1. The letter should outline the reasons for participating in the meeting, competition, etc., and include a brief statement of learning objectives and appropriate involvement in student activities. Upon successful return from travel opportunity, student(s) should be willing to present report to classmates and/or faculty. ACCESS AWARD
Donor(s): Canada's Outdoor Farm Show with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Undergraduate students in O.A.C. who have completed semester 4 in Agricultural Science or Agricultural Business or who have completed semester 2 of the Diploma in Agriculture program (Alfred, Guelph, Kemptville, Ridgetown).
Amount: 1 award of $1,000

Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]
The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government's OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.
Donor(s): Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Undergraduate degree students in either the second or third year of study, Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a "Letter of Permission" prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: A number of awards to a maximum of $7,500

Class of OAC ’59 Experiential Learning Travel Grant [T0702]
The Class of OAC ’59, in recognition of their 50th anniversary since graduation, has established this award to assist students participating in meetings, conferences, seminars, tradeshows, course field trips, semesters abroad, etc. Selection will be based on relevance of intended travel and benefits to program of study. Apply by April 1st to the OAC Awards Office with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs and expected benefits. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be beneficial.
Donor(s): OAC ’59
Qualification(s): Students registered in any undergraduate degree program of OAC who have completed a minimum 8.0 credits or students registered in the Diploma in Agriculture or Horticulture programs at Alfred, Kemptville or Ridgetown campuses or Turfgrass Diploma at the Guelph campus who have completed 6.0 credits are eligible. Students must have a 70% cumulative average and must have travel related to their studies to be considered.
Amount: Several awards of up to $15,000
D & G Hart Travel Grant [T0601]
Douglas H., O.A.C. 1922, and George M., O.A.C. 1927, were long time supports of O.A.C. and believed greatly in the benefits that travel provided to an individual's personal and professional growth. Apply to the O.A.C. Awards Office by May 15 with a letter of no more than two pages outlining the intended study program/conference/or other type of travel opportunity, the reasons for choosing the travel program and the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. This award cannot be held with any other University of Guelph Travel Grant.

Donor(s): Family of Douglas and George Hart
Qualification(s): Students currently enrolled in any O.A.C program with a minimum 70% cumulative average who intend to participate in travel related to course study.
Amount: 1 award of up to awards of $750

H.C. Mason Travel Scholarships [T0598]
In memory of the late H.C. Mason, a travel fund, within the O.A.C. Teaching Trust, for O.A.C. students who have been established by F.W. Bray of Hamilton. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the travel program, with the submission of a letter of no more than two pages outlining the intended study program/conference/or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant in not tenable with other University of Guelph travel grants.

Donor(s): Mr. F.W. Bray
Qualification(s): Student who are currently registered in an Ontario Agricultural College undergraduate program with a minimum of 70% cumulative average who intend to participate in travel related to course study
Amount: various awards up to $1,500

J. Ross Cavers Study Abroad Scholarship [T0051]
O.A.C. '53 provides these scholarships in memory of J. Ross Cavers, their honorary year member, professor emeritus, and respected poultry scientist. Apply by letter outlining the intended semester abroad program, the reasons for choosing the program and the perceived value of participation along with a brief summary of related and extracurricular activities to the O.A.C. Awards Office by May 15. A letter of recommendation will also be considered as part of the application package. Application should be made a maximum of two semesters prior to participation in the intended travel program.

Donor(s): Class of O.A.C. '53
Qualification(s): Undergraduate student in O.A.C. planning to participate in a semester abroad program with a minimum 75% cumulative average. Preference will be given to a candidate who has exhibited qualities of leadership.
Amount: 2 awards of $2,000

J.D. Cunningham Travel Grant [T0605]
Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by May 15 to the O.A.C. Awards Office with a letter of no more than two pages outlining the intended study program, conference, or other type of learning opportunity. Include the reason for choosing the program and describe the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. Upon return from the travel opportunity, the student must be willing to present a report to classmates and/ or faculty and/ or the Ontario Food Protection Association.

Donor(s): Ontario Food Protection Association
Qualification(s): Students currently enrolled in any O.A.C program with a minimum cumulative average of 75%. Preference will be given to students in Food Science specializing in Microbiology.
Amount: 1 award of $2,000

Kenneth W. Knox Undergraduate Leadership Travel Grant [T4403]
Established to honour and recognize Kenneth Knox, Kemptville '67, OAC '72, for his passionate and innovative career. Selection will be based on relevance of intended travel and benefits to program of study, demonstrated leadership contributions and financial need. Apply by October 7 to Student Financial Services with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs, expected benefits, demonstrated leadership as evidenced by participation in extracurricular activities or volunteer services, along with a completed University of Guelph Financial Need Assessment Form. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be considered. ACCESS AWARD

Donor(s): Friends and Family of Kenneth Knox with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any program offered by OAC who have demonstrated leadership contributions, have completed a minimum of 10.0 credits with a minimum 70% cumulative average and plan to participate in an experiential learning opportunity related to their field of study, such as: semester abroad, exchange program, etc. and have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $2,000

Kincardine Shippers Association Travel Grant [T0676]
Established by the members of the Kincardine Shippers Association to assist students in pursuit of their educational goals. Selection will be based on the stated travel benefits, leadership potential and financial need considered. Preference will be given to students from the Municipality of Kincardine and the Township of Huron-Kinloss. Apply with a letter of no more than two pages outlining the intended study program or type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation, along with a Need-Based Travel grant application by October 7 to Student Financial Services. A letter of recommendation will be considered as part of the application.

Donor(s): Kincardine Shippers Association
Qualification(s): Students registered in any program offered by O.A.C. with a minimum 70% cumulative average who plan to participate in travel related to course study.
Amount: 1 award of $1,000

Massey Fund Travel Scholarships [T0417]
Travel scholarships available from the Massey Fund. Not tenable with other awards that support travel costs. Apply by letter outlining the study abroad/exchange program and travel costs to the O.A.C. Dean's Office by May 15.

Donor(s): O.A.C. Awards Committee
Qualification(s): O.A.C. undergraduate students who are participating in an approved study abroad or exchange program outside Canada. Academic standing in the last two full-time semesters or equivalent will be used to determine recipients.
Amount: 6 awards of up to $2,000 each

O.A.C. '05 Excellence Travel Grant [T0606]
In honour of the O.A.C. Class of 1905 and with the support of the O.A.C. Class of 2005. Apply to the O.A.C. Awards Office by May 15 with the submission of a letter of no longer than two pages outlining the intended study program/conference/or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant in not tenable with other University of Guelph travel grants.

Donor(s): Class of OAC 1905 and the Class of OAC 2005
Qualification(s): Student who are currently registered in an Ontario Agricultural College undergraduate degree program and wish to travel to expand their educational opportunities.
Amount: 1 award of $300

O.A.C. '47 Travel Bursaries [T3505]
Provided by O.A.C.'47 on the occasion of its 50th anniversary and with the assistance of the Ontario government's OSOTF program. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure by October 1, for winter travel, February 1 for summer travel or June 1 for fall travel.

Donor(s): O.A.C. '47 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students who have demonstrated financial need and who are participating in a study abroad program for academic credit at an approved institution. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: several awards of various amounts
### O.A.C. ’54 International Study Scholarship [T0586]

Established in memory of Beth Duncan to support students participating in an exchange program, study abroad semester, or a field trip course. Submit a letter (of not more than two pages) outlining the intended international study program, reasons for choosing the program and the anticipated benefits of participation. Letters should also include a brief summary of extracurricular and student related activities. Letters of reference will be considered. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the program.

**Donor(s):** Class of O.A.C. ’54  
**Qualification(s):** Currently registered students in O.A.C. who are Canadian citizens or permanent residents with a minimum 75% cumulative program average who intend to participate in an exchange program, semester abroad, or field trip course.  
**Amount:** 2 awards of $1,450

### OURA Innovation Travel Grant [T4393]

Established in recognition of an innovative student fee protocol put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7th with a completed Financial Need Assessment Form and include one-page description of the intended travel. ACCESS AWARD

**Donor(s):** Ontario University Registrars' Association (OURA) with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 1 award of $350

### Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]

The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government's OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD.

**Donor(s):** The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** Several awards of varying amounts to a maximum of $1,000

### Roderick Long International Travel Grant [T0360]

Offered in memory of the late Roderick Long, O.A.C.’54. Up to eighty percent of the travel costs associated with the study outside of Canada program will be covered up to a maximum of $1,000 per student. Application by letter should be made to the Dean O.A.C. by May 15, and include a description of the study abroad program.

**Donor(s):** Mr. Roderick W. Long  
**Qualification(s):** O.A.C. undergraduate student who is studying outside of Canada on an approved program for one or more semesters  
**Amount:** Several awards of $1,000

### University of Guelph Travel Scholarships [T0421]

The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.

**Donor(s):** University of Guelph  
**Qualification(s):** Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.  
**Amount:** Several awards up to $1,500
Bachelor of Commerce

Please refer to the General Statement on Awards for:

- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

Entrance Scholarships

1961-1964 Redmen Football Scholarships [E0770]

Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipients(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Dr. Robert Keith (c/o 1961-1964 Football Committee)
**Qualification(s):** Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.
**Amount:** several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [E0769]

Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
**Qualification(s):** Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
**Amount:** 1 award of $1,500

Al Singleton Hockey Scholarships [E0687]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** 1957-58 OA-VC Redmen Championship Hockey Team
**Qualification(s):** Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
**Amount:** Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [E0663]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Allen Keele
**Qualification(s):** Entering student-athlete who is a member of the Varsity track and field team and who has achieved a minimum 80% admission average.
**Amount:** 1 award of $1,350

Amos & William Lowe Memorial Scholarship [E0158]

Endowed by the late William B. Lowe of Fort Francis, Ontario. Preference will be given first to eligible students from the district of Rainy River, then from the district of Kenora or Thunder Bay, and finally from the remaining districts of Northern Ontario. Application is not required.

**Donor(s):** William B. Lowe and Amos Edgar Lowe
**Qualification(s):** Student entering any of the undergraduate degree programs of the Ontario Agricultural College.
**Amount:** 1 award of $1,250

Angelo and Frank Agro Undergraduate Scholarship [E0520]

These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. Applications must maintain full-time studies and at least a 70% program average each year for continuation of the award.

**Donor(s):** The Frank Agro Estate
**Qualification(s):** Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4H projects.
**Amount:** 8 awards of $7,000 (payable over 4 years of study)

Barry Lee Scholarship for Agricultural Excellence [E0797]

Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

**Donor(s):** The Regional Municipality of Halton
**Qualification(s):** Students entering any undergraduate program offered by OAC.
**Amount:** 1 award of $1,000

Board of Governors’ Scholarships [E0317]

The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

**Donor(s):** Board of Governors
**Qualification(s):** Academically outstanding students entering semester 1 with the highest admission averages of the entering cohort.
**Amount:** 25 award of $8,000 (payable over 4 years of study)

Bob & Joyce Brooks Football Scholarships [E0691]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Mrs. Joyce Brooks
**Qualification(s):** Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
**Amount:** Numerous awards ranging in value from $750 to $3,500

Coach Rudy Florio Football Scholarship [E0737]

Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Mr. Rudy Florio
**Qualification(s):** Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
**Amount:** 1 award of $3,500

Dr. C. John Small Commonwealth Scholarship [I0611]

Established in honour of Dr. C. John Small, OAC BSA ‘42, Hon. D. Law ’75, and his lifelong dedication to foreign service. Selection will be based on the assessment of: (a) a one-page submission describing the significance for the student visiting Guelph to the program of study at the partner exchange University, (b) two faculty references of no more than one-page each, and (c) consistent high performance in course work completed, as documented by a transcript of program grades to date. Apply to the Centre for International Programs by May 1 for visiting during the subsequent Fall or Winter semesters with the above mentioned documents.

**Donor(s):** Mrs. Jean K. Small
**Qualification(s):** Full-time visiting exchange students registered for at least one semester from a Commonwealth developing country who are pursuing studies or conducting research in the area of agriculture and rural development.
**Amount:** 1 award of $1,500
### IX. Scholarships and Other Awards, Bachelor of Commerce

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
<th>Amount</th>
<th>Selection Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dr. Jack Britney Scholarship [E0034]</strong></td>
<td>Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.</td>
<td>Friends and Associates</td>
<td>1 award of $1,000</td>
<td>Establishing in memory of Dr. Jack Britney, a graduate of '57A and O.A.C. '60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to Graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.</td>
</tr>
<tr>
<td><strong>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]</strong></td>
<td>Entering student-athlete who is a member of the Varsity Cross Country team and who has achieved a minimum 80% admission average.</td>
<td>George Ames</td>
<td>1 award of $3,500</td>
<td>Established by George Ames. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td><strong>Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]</strong></td>
<td>Entering student-athlete who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.</td>
<td>Various Donors</td>
<td>1 award of $3,500</td>
<td>Established by Dr. Christian Baldauf. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td><strong>Elaine Scott-Thomas Track and Field Scholarship [E0706]</strong></td>
<td>Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.</td>
<td>Dave Scott-Thomas CBS BSc '88</td>
<td>1 award of $1,500</td>
<td>Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletics Awards Committee. No application is necessary.</td>
</tr>
<tr>
<td><strong>Embry Family Scholarship [E0736]</strong></td>
<td>Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.</td>
<td>Mr. John Embry</td>
<td>1 award of $3,500</td>
<td>Established by Dr. John Embry. Recipients will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletics Awards Committee. No application is necessary.</td>
</tr>
<tr>
<td><strong>Gerd and Christel Baldauf Men's Basketball Scholarship [E0639]</strong></td>
<td>Entering student-athlete who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.</td>
<td>Dr. Christian Baldauf</td>
<td>1 award of $3,500</td>
<td>Established by Christian Baldauf, BSc, ’95, in honour of his parents. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td><strong>Gordon W. Innes Scholarship [E0140]</strong></td>
<td>Student entering any degree program from Oxford County with the highest admission average.</td>
<td>Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.</td>
<td>1 award of $1,400</td>
<td>Application is not required.</td>
</tr>
<tr>
<td><strong>Gryphon Athletic Scholarships [E0631]</strong></td>
<td>Full-time international students (defined as paying the international student tuition and fees) entering any degree program.</td>
<td>Various Donors</td>
<td>various awards of $750 to $3,500</td>
<td>Established by several donors. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td><strong>Hardy International Student Scholarship [E0659]</strong></td>
<td>Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.</td>
<td>Mrs. Marion Hardy</td>
<td>1 award of $3,000</td>
<td>Established by Mrs. Marion Hardy. Recipients will be selected based on demonstrated leadership qualities. Application is not required.</td>
</tr>
<tr>
<td><strong>International Student Entrance Scholarships [E0408]</strong></td>
<td>Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.</td>
<td>University of Guelph</td>
<td>1 award of $3,000</td>
<td>In support of the University's strategic direction of internationalism, entrance scholarships for international students are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is required.</td>
</tr>
<tr>
<td><strong>J.D. MacLachlan Scholarship [E0170]</strong></td>
<td>Students entering any degree program at the University of Guelph.</td>
<td>The J.D. MacLachlan Trust</td>
<td>1 award of $1,500</td>
<td>Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.</td>
</tr>
</tbody>
</table>

*Qualification(s):* 
- Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
- Entering student-athlete who is a member of the varsity Men’s Basketball team and who has achieved a minimum 80% admission average.
- Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.
- Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.
- Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.
- Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.
- Entering student-athlete who is a member of the varsity Men’s Basketball team and who has achieved a minimum 80% admission average.
- Entering student-athlete who is a member of the varsity team and who has achieved a minimum 80% admission average.

*Amount:* 
- 1 award of $1,000
- 1 award of $1,400
- 1 award of $1,500
- 1 award of $3,500
- 1 award of $3,500
- 1 award of $3,500
- 1 award of $3,500
- 1 award of $3,000
- 2 awards of $1,500
- 2 awards of $1,350
- 2 awards of $1,250

*Donor(s):* 
- Friends and Associates
- George Ames
- Various Donors
- Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.
- Gordon W. Innes Scholarship Fund Committee of the Woodstock Agricultural Society.
- Various Donors
- University of Guelph
- The J.D. MacLachlan Trust

*Selection is based on assessment of the student's admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required.*
Established in memory of James MacMillan, his great uncle, by Austin Conway of Toronto. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter indicating the program at Kemptville in which the applicant graduated from to Student Financial Services by October 7.

Donor(s): Austin Conway
Qualification(s): Kemptville College graduate with a minimum 75% cumulative average at convocation who registers in the O.A.C.C. degree program in Agriculture or in Agriculture and Business.

Amount: $2,500

Kelly Bertrand Cross Country Scholarship [E0684]

The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Kelly Bertrand
Qualification(s): Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.

Amount: $2,000

Larry Pearson Men’s Volleyball Athletic Scholarships [E0618]

Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Larry Pearson
Qualification(s): Entering student-athlete who is a member of the men’s varsity volleyball team and who has achieved a minimum 80% admission average.

Amount: several awards up to $3,500

Latifpoor-Keparoutis Family Varsity SwimTeam Scholarship [E0732]

Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Maryam Latifpoor-Keparoutis
Qualification(s): Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.

Amount: $1,200

Lincoln Alexander Scholarships [E0689]

Established in 2001 in honour of Lincoln Alexander, Chancellor Emeritus of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This award cannot be held with any other award. Students must be: Aboriginal; or a person with a disability; or a member of a racial minority.

Donor(s): Many Donors
Qualification(s): Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and communities. In addition, students must be: Aboriginal; or a person with a disability; or a member of a racial minority.

Amount: 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

Lloyd Dorr Memorial Hockey Scholarship [E0708]

Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Family and Friends of the late Lloyd Dorr
Qualification(s): Entering student-athlete who is a member of the men’s varsity hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

Amount: $1,000

Mac-FACS-FRAN Alumni Entrance Scholarship - Marketing and Consumer Studies [E0821]

Selection will be based on the highest admission average. This award is not tenable with the President's Scholarship, the Lincoln Alexander Chancellor's Scholarship or the Devine Family Scholarship. Application is not required.

Donor(s): Mac-FACS-FRAN Alumni Association
Qualification(s): Students entering a BComm. program offered by the Department of Marketing and Consumer Studies.

Amount: $1,000

McArthur-Humphries Scholarship [E0183]

An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other counties. These scholarships are awarded to students with the highest admission averages. Application is not required.

Donor(s): Wilhelmina McArthur-Humphries Trust Fund
Qualification(s): Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.

Amount: $1,200

Men’s Basketball Scholarships [E0638]

Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Anonymous (Alumni)
Qualification(s): Entering student-athlete who is a member of the varsity Men’s Basketball team and who has achieved a minimum 80% admission average.

Amount: 4 awards of $2,500

Men’s Soccer Alumni Scholarship [E0771]

Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Paul Wombwell (on behalf of the Men's Soccer Alumni Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon men’s soccer team with a minimum 80% admission average.

Amount: several awards ranging in value from $1,000 to $3,500

Moulton-Hutchinson Family Track and Field Scholarship [E0705]

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): The Moulton and Hutchinson Families
Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.

Amount: $3,500
Ontario Institute Of Agrologists' Mike Jenkinson Memorial Scholarship [E0738]
Established to honour Mike Jenkinson (OAC BSA 1963) who demonstrated and promoted professionalism in agriculture through his work and involvement in OIA. Selection will be based on development of professional skills as demonstrated by attendance or presentations at conferences or workshops, participation in or leadership on committees, organizations, etc., involvement in business ventures, volunteering, mentoring or community involvement. Preference will be given to students entering from the High Skills Agriculture Program at the high school level and if no applications are received from this program, selection will be based on the highest admission average. Apply by April 15th to the OAC Awards Office with a letter of no more than 2 pagesoutlining attendance or presentations at conferences or workshops, participation in or leadership on committees, organizations, etc., involvement in business ventures, volunteering, mentoring or community involvement. Please indicate whether the High Skills Agriculture Program has been taken in high school.

Donor(s): Ontario Institute Of Agrologists
Qualification(s): Students entering any OAC degree program with a minimum 80% admission average.
Amount: 1 award of $1,000

Pamela Wallin Chancellor’s Scholarships [E0688]
Established in 2009 in honour of Pamela Wallin, Chancellor of the University of Guelph and considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.

Donor(s): University of Guelph
Qualification(s): Students entering a degree program with a minimum 90% admission average who have taken a leadership role in activities that demonstrate an interest in international relations and development and who indicate an ongoing desire to gain a broader subject knowledge through course work and/or engagement in the discipline and demonstrate the potential to become leaders in society.
Amount: 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

President’s & Chancellor’s Finalists Scholarship [E0651]
Established in recognition of demonstrated academic excellence, leadership ability and participation in the President’s and Chancellor’s Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President’s or Chancellor’s Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.

Donor(s): Provost, and Vice-President Academic of the University of Guelph
Qualification(s): Students entering any degree program who have been interviewed for consideration for a President’s or Chancellor’s Scholarship.
Amount: several awards of $500

President’s Scholarship [E0238]
Established in 1987 in honour of their donors or distinguished members of the University and are considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the Lincoln Alexander Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

Donor(s): A number of President’s Scholarships have been named in honour of the following people and/or donors:
Cecil H. Franklin and Ingrid Franklin
In honour of Cecil Franklin, former Chair of the Board of Governors and Honorary Fellow of the University, the University of Guelph has named one of these twelve prestigious entrance awards to recognize his financial contributions and volunteer support to the President’s Entrance Scholarship program.
Charles S. Humphrey
In memory of Charles S. Humphrey, a former President of Hart Chemical Company Canada Ltd. and long-time friend, the University has named one of these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President’s Entrance Scholarship program.
Jack R. Longstaffe
The University of Guelph has named one of these twelve prestigious entrance awards in memory of Jack R. Longstaffe to recognize his financial contribution through his estate to the President’s Entrance Scholarship program.
Burton C. Matthews
The University of Guelph has named one of these twelve prestigious entrance awards in honour of Burton C. Matthews to recognize his insight and leadership in establishing the President’s Entrance Scholarship program.
Kathleen and Frederick Metcalf
Mr. and Mrs. F.T. Metcalf of Guelph have endowed this award. After a distinguished career in cable TV, broadcasting and publishing, the late Mr. Metcalf retired as President of Maclean Hunter Ltd. and Chairman of the Board of Maclean Hunter Cable Ltd. He was Honorary Chairman of Maclean Hunter Cable Ltd. and a member of the University of Guelph Heritage Board (1996).
Rol-land Farms Limited
Two of the scholarships are endowed by the four shareholders of Rol-land Farms Limited of Blenheim, Ontario, Hank, Peter, Arthur and Eric Vander Pol and their families. The Vander Pol families are generous supporters of a number of University projects and programs.
Lillian Stewart Usher
The University of Guelph has named one of these twelve prestigious entrance awards in honour of Lillian Stewart Usher a friend of the University to recognize her financial contribution through her estate to the President’s Entrance Scholarship program.

Professor Victor Matthews Track and Field Scholarships [E0707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.
Amount: up to 10 $3500 each

Quinn Memorial Scholarship [E0578]
Established in memory of Ronald J. Quinn (O.A.C. ’35) to an entering O.A.C. international full-time or exchange student. Selection will be based on academic performance, letters of reference and an assessment of the admission application package. Application is not required.

Donor(s): Mrs. Helen Quinn (O.A.C. ’35)
Qualification(s): Entering semester one of an O.A.C. program to an international full-time student or to an international exchange student with a preference to those students from developing nations.
Amount: 1 award of $1,500
Rachel Cliff Scholarship [E0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Ronald & Nancy Cliff
Qualification(s): Entering student-athlete who is a member of the Women’s Middle Distance Team and a distance runner who has achieved a minimum 80% admission average.
Amount: 1 award of $1,500

Real Estate and Housing Adversity Scholarship [E0800]
Recipient will be selected on the basis of a 500 word statement which summarizes 1) why the student chose the Real Estate and Housing major, and 2) the challenging circumstances surrounding the decision to undertake post-secondary education, with an outline of the steps taken to address those challenges. Preference will be given to a mature student. Apply by April 15th, with a 500 word statement summarizing 1) reasons for applying to the Real Estate and Housing major, and: 2) the challenging circumstances surrounding the decision to undertake post-secondary education, with an outline of the steps taken to address those challenges.

Donor(s): Anonymous
Qualification(s): Students entering the Real Estate and Housing major of the Bachelor of Commerce program with a minimum admission average of 75% who have demonstrated persistence and tenacity in their pursuit of post-secondary education despite challenging circumstances.
Amount: 1 award of $1,000

Sprung Family Men's Basketball Scholarship [E0672]
Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. Timothy Sprung
Qualification(s): Entering student-athlete who is a member of the Men's basketball team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Ted Morwick Scholarship [E0796]
Established by Alumnus Ted Morwick, BA ’70. The student with the highest admission average will be selected. This award is conditional on maintaining a 80% average in the previous year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify. (i.e. The student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year.) If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opportunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary.

Donor(s): Mr. Edward (Ted) Morwick
Qualification(s): Students entering any degree program in the College of Arts. Amount: 1 award of $8,000 (payable over four years.)

Tom Mooney Scholarship [E0709]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the varsity men’s football team or men’s basketball team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $1,000 to $3,500

TSC Stores Scholarship in Memory of Gordon Illes [E0731]
Established in memory of Gordon Illes, a 1974 graduate of Ridgeway. Selection based on the quality of experience and/or leadership in volunteerism within the agriculture industry and the community, including extra curricular activities and career aspirations. (e.g. 4H, Junior Farmers, agricultural work experience). Preference will be given to current employees of TSC Stores or their children. Apply by April 15th to the O AC Awards Office with a letter outlining career aspirations, extracurricular and community involvement in agri-food related activities and include a letter from TSC Stores management to verify employment if applicable.

Donor(s): TSC Stores L.P. (TSC)
Qualification(s): Students entering any OAC degree program at the Guelph, Ridgeway or Kemptville campuses with a minimum 80% admission average.
Amount: 1 award of $1,000

University of Guelph Entrance Scholarships [E0291]
The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student's financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive this award. Application is not required.

Donor(s): University of Guelph
Qualification(s): All students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average.
Amount: Several awards of $2,000, Several awards of $3,000

University of Guelph Faculty Association Scholarship [E0292]
Award is payable at $750 per annum in the student's 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required.

Donor(s): University of Guelph Faculty Association
Qualification(s): Students entering any undergraduate degree program at the University of Guelph from Wellington county.
Amount: 1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)

W. Penri Morris Memorial Scholarship [E0430]
Established by the family in memory of Penri Morris, who was killed World War II action in 1944 at the age of 21. Penri grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required.

Donor(s): Prof. Rosalina Morris
Qualification(s): Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.
Amount: 1 award of $1,000

Walter and Halina Slabikowski Scholarship [E0766]
This scholarship was established in memory of Walter and Halina Slabikowski who sent their first generation Canadian born children to university to enrich their lives and provide them with greater opportunities. The award will be given to the student with the highest admission average. The residence deposit must be received by published deadline date. Submit by email to awards@ registrar.uoguelph.ca your full name, student ID number and a statement attesting to your parents’ place of birth and non participation in post secondary education by April 15th.

Donor(s): Irene Thompson and Slabikowski Family
Qualification(s): Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.
Amount: 1 award of $1,000

Waterloo-Wellington Science & Engineering Fair (WWSEF) Scholarship [E0619]
Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.

Donor(s): University of Guelph
Qualification(s): Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.
Amount: various awards of $1,000

William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships [E0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mrs. Irene McEwen
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500
William P. Weber Football Scholarship [E0634]
Established by Dr. William P. Weber, OVC ‘59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): Dr. William P. Weber
Qualification(s): Entering student-athlete who is a member of the Men’s Football team and achieved a minimum 80% admission average.
Amount: 1 award of $2,500

Entrance Scholarships with Financial Need

Bill Klopp Memorial Scholarship [E0150]
Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).
Donor(s): Ross and Mary Lou Klopp
Qualification(s): Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.
Amount: 1 award of $500

Devine Family Scholarships [E4542]
On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government’s OTSS program, established these two awards in the purpose of diversifying the ethnicity of the student body of the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out once every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the "Devine Family Scholarship Application". Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President’s Scholarship or the Lincoln Alexander Chancellor’s Scholarship, but can be held with all other entrance awards, ACCESS AWARD.
Donor(s): Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability, or who are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $30,000 (payable over 4 years of study)

Interhall Council Entrance Scholarship [E0636]
Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.
Donor(s): Interhall Council
Qualification(s): Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability.
Amount: 3 awards of $1,250

John Embry Family Scholarship [E4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD
Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $3,500

Kenneth O. Hammill-Blount Canada Scholarship [E4356]
Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government’s OSOTF program. Selection will be based on greatest financial need from the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who submitted an application for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) by April 15. ACCESS AWARD.
Donor(s): The Blount Foundation, Inc. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Entering students who have applied for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships who are interviewed, but not successful in the competition with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $9,600 (payable in 8 payments of $1,200)

Landoni Athletic Scholarship [E4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Student must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD
Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Norman L. Gibbins Microbiology Scholarship [E4392]
Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government’s OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD
Donor(s): Family, friends and colleagues of Norman Gibbins with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students entering the Microbiology major in the B.Sc. program with a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,000
Paul and Aileen Clarke Family Scholarship [E0381]
Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.). This award is not tenable with the President's Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrollment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

Donor(s): Paul and Aileen Clarke
Qualification(s): Students with a minimum 80% average with a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm.
Amount: 1 award of $12,000 (payable over 4 years)

Robert C. Skipper Scholarship [E0485]
Established by Robert C. Skipper, Diploma in Agriculture 1948 and B.S.A. 1951. Selection will be based on academic standing, participation in extra-curricular activities and involvement in primary production and/or rural community activities. Financial need may also be considered. Apply to Student Financial Services by April 15 with a one-page summary outlining activities and by completing the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.).

Donor(s): Mr. Robert C. Skipper
Qualification(s): Students entering a degree program in O.A.C that have graduated with a Diploma in Agriculture or Horticulture from the University of Guelph's Kemptville or Ridgetown campuses.
Amount: 1 award of $1,000

Rol-Land Farms Scholarships [E4519]
Established by Rol-Land Farms, with the assistance of the Ontario government’s OSOTF program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): Rol-Land Farms with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students entering a degree program with demonstrated financial need and a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award.
Amount: 13 awards of $2,000

Sleeman Brewing Scholarships [E4267]
Established by the Sleeman Brewing and Malting Company, with the assistance of the Ontario government’s OSOTF program. One award alternates between a B.Sc. student in the College of Biological Science and the College of Physical and Engineering Science (beginning with C.P.E.S. in 2000/2001); one award is available to a B.Comm. students, in a major offered by the School of Hospitality and Tourism Management. Selection is by the University Bursary Committee. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): The Sleeman Brewing & Malting Company with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time entering students registered in the B.Sc. program in the College of Biological Science or the College of Physical and Engineering Science and B.Comm. students, in a major offered by the School of Hospitality and Tourism Management with a minimum admission average of 80% and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,000

Spitzig Entrance Scholarship in Economics [E4543]
A graduate (1986) of the B.A. Economics program has established these scholarships with the assistance of the Ontario government’s OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

Donor(s): Anonymous with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $4,500

W. F. Mitchell Athletic Scholarship [E4550]
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): The Mitchell Family with matching funding through the Ontario Trust for Student Support program
Qualification(s): An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,350

Entrance Bursaries

Charles McRae Memorial Bursary [E3071]
Established by the Jean Rich Foundation in honour of Mrs. Rich’s late father Mr. Charles McRae. In honour of achieving overadvertising and achieving great success in business. Selection will be based on greatest financial need. Apply by April 15th using the online Financial Need Assessment Form for Entrance Awards.

Donor(s): The Jean Rich Foundation
Qualification(s): Students entering the Accounting major of the B.Comm with demonstrated financial need.
Amount: 1 award of $6,000

Elizabeth Maud Hunter (Shier) Bursary [E3575]
This award was created to assist first year students in obtaining a post secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards.

Donor(s): The Estate of the Late William Henry "Harry" Hunter with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students entering any degree program at the University of Guelph with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 3 awards of up to $4,500

First Year Student Residence Bursary [E3066]
These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15.

Donor(s): Student Housing Services
Qualification(s): Students entering any degree program with demonstrated financial need.
Amount: 5 awards of $500

Last Revision: Oct. 19, 2012
Fred Hindle Bursary [E3500]
Awarded in memory of Fred Hindle, O.A.C./38, a long-time generous supporter of his Alma Mater, who at the time of his death, wanted future students to have the same opportunity for an education as he had received. This bursary is awarded with the assistance of the Ontario government's OSOTF program. This bursary is dependent on continued demonstration of financial need and successful completion of study to advance into the next year. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.ACCESS AWARD.

Donor(s): W. Roy Hindle and family with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Entering O.A.C. degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statement on Awards).
Amount: 1 award of $6,000 (payable over 4 years)

Gord Bennett Memorial and O.A.C. '43 Class Bursary [E3515]
The family and friends of R. Gordon Bennett, O.A.C. ’43, a former Deputy Minister of Agriculture, with the assistance of the Ontario government’s OSOTF program, have created this bursary. Apply by April 15 with a letter indicating farming background to Student Financial Services and by completing the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). ACCESS AWARD

Donor(s): The family and friends of R. Gordon Bennett, O.A.C. ’43 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need entering a Diploma program or the B.Sc.(Agr.), or B.Comm., Agricultural Business programs. Preference will be given to students whose primary family occupation is farming. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,000

Harvey Graham Bursary [E3030]
Provided by Harvey Graham (O.A.C. ’39). Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).
Deadline to submit the application is April 15.

Donor(s): Harvey Graham, O.A.C. ’39
Qualification(s): Student who has demonstrated financial need with preference given to a student from Weldon Secondary School. Students graduating from Lindsay C. V. I., Fenelon Falls Secondary School, or I. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student’s home township.
Amount: 1 award of $1,200

International Student Entrance Bursaries [E3043]
In support of the University’s strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar’s Entrance Award Application to Student Financial Services.

Donor(s): University of Guelph
Qualification(s): Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.
Amount: Several awards ranging in value from $1,000 to $3,000

Registrar’s Entrance Bursaries [E3084]
Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Bursary, but can be held with all other entrance awards.

Donor(s): University of Guelph
Qualification(s): Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.
Amount: 900 awards of $2,000

Robert Arthur Stewart Bursaries [E3272]
Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

Donor(s): The Estate of Mrs. H. Stewart
Qualification(s): Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.
Amount: 12 awards of $500

University of Guelph Accessibility Bursaries [E3038]
Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar’s Entrance Bursary, but can be held with all other Entrance Awards.

Donor(s): University of Guelph
Qualification(s): Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.
Amount: 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

In-course Scholarships

1961-1964 Redmen Football Scholarships [I0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipients(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Current member of the Gryphon Football team who is registered in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [I0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipients(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Men’s Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

AI Singleton Hockey Scholarships [I0687]
The recipients will be selected based upon extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $750 to $3,500
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen Keele Track and Field Scholarship [I0663]</td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td></td>
<td>Allen Keele</td>
<td>1 award of $1,350</td>
</tr>
<tr>
<td>Alun Joseph Tribute Scholarship [I0756]</td>
<td>Selection will be based on significant prior contributions to and experience in community-based service and future participation in curriculum-based experiential learning opportunities in the following academic year. Apply to the CSAHS Awards Committee by May 15 with a summary letter outlining prior contributions to and experience in community-based service, and how funds were used to support participation in curriculum-based experiential learning opportunities in the following academic year.</td>
<td>Full-time students registered in any program offered by the College of Social and Applied Human Sciences with a minimum 75% cumulative average who are participating in curriculum-based experiential learning in the following academic year.</td>
<td>Dr. Alun Joseph Dean of the College of Social and Applied Human Sciences</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Appraisal Institute of Canada Scholarship [I0680]</td>
<td>The recipient will be selected based on academic achievement in real estate courses in the Real Estate and Housing major. No application required.</td>
<td></td>
<td>The Appraisal Institute of Canada</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Bachelor of Commerce Leadership Prize [C0727]</td>
<td>The award will be made on the basis of overall contribution to the Bachelor of Commerce Program through extracurricular leadership activity and academic achievement. Apply to the CME Committee on Student Awards by April 1 using the BComm Leadership Award Application Form and include a resume and a detailed list of extracurricular activities indicating the dates of involvement, listed in reverse chronological order, the nature of your involvement, any offices held and your responsibilities. Please divide them into the following categories: Specialization/Major Activities, Program Activities, College/University Activities (CME, CSAHS or OAC), Other.</td>
<td>Students who are graduating in June, or who have graduated in the previous two convocations from the BComm program.</td>
<td>Faculty, Staff, Alumni, and Students, College of Management and Economics</td>
<td>1 award of a plaque</td>
</tr>
<tr>
<td>Beth Park Memorial Scholarship [I0420]</td>
<td>The family and friends of Beth Park (FACS ’79) have established a scholarship to foster talent in the area of product development and/or quality management. Apply to the Department of Marketing &amp; Consumer Studies by May 15 with a resume and a 500-word statement documenting interest and experience in product development and/or quality management.</td>
<td>Students who have completed 15.0 credits in Marketing Management major in the Department of Marketing and Consumer Studies with a minimum 75% average over the previous 5.0 credits and have demonstrated interest in product development or quality management.</td>
<td>Holt Renfrew</td>
<td>2 awards of $1,000</td>
</tr>
<tr>
<td>Bill Brohan Memorial Scholarship [I0533]</td>
<td>Established in memory of Bill Brohan, a founding partner of the firm who served on the University of Guelph Board of Governors from 1986-1992. The award winner will be chosen on the basis of academic achievement, involvement in extracurricular activities, and a demonstrated interest in a career in accounting. Apply to the Dean, College of Management and Economics by May 15, including a statement outlining your extracurricular involvement and interest in pursuing a career in accounting.</td>
<td>Students who have completed a minimum of 10.0 credits with a minimum 75% average.</td>
<td>Robinson Lott &amp; Brohan LLP</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>Bill Taylor Memorial Scholarship [I0280]</td>
<td>Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.</td>
<td>Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or collegiate athletics.</td>
<td>AMF Canada Ltd.</td>
<td>1 award of $900</td>
</tr>
<tr>
<td>Blackburn Scholarship [I0404]</td>
<td>In commemoration of the 125th Anniversary of the Ontario Agricultural College, Dr. D.J. Blackburn, a retired faculty member of the former Rural Extension Studies program and former Director of the Associate Diploma Program has established this scholarship. Apply by letter, citing athletic contributions, to the O.A.C. Awards Committee by May 15.</td>
<td>Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.</td>
<td>D.J. Blackburn</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Bob &amp; Joyce Brooks Football Scholarships [I0691]</td>
<td>The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.</td>
<td>Students who, on graduation from Food Agriculture and Resource Development major, attains the highest proficiency in the area subjects. Apply by letter, citing athletic contributions, to the Athletic Awards Committee by April 1.</td>
<td>Mrs. Joyce Brooks</td>
<td>Numerous awards ranging in value from $750 to $3,500</td>
</tr>
<tr>
<td>C.W. Riley Prize [C0246]</td>
<td>The C.W. Riley Prize was established by a number of his friends and associates. Application is not required.</td>
<td>Students who, on graduation from Food Agriculture and Resource Development major, attains the highest proficiency in the area subjects. Apply by letter, citing athletic contributions, to the Athletic Awards Committee by April 1.</td>
<td>C.W. Riley Associates</td>
<td>1 award of $200</td>
</tr>
<tr>
<td>Cameron Hawkins and Associates Scholarship [I0568]</td>
<td>The recipient must have participated in extracurricular activities at the University of Guelph and have a strong interest in the foodservice industry. Apply by January 31 to the HMC Awards Committee using the standard HTM scholarship application form and include a statement of no more than 500 words describing your interest in the foodservice industry.</td>
<td>Students who have completed at least 11.0 credits but no more than 14.5 with a minimum 70% average in the last two full-time equivalent semesters.</td>
<td>Cameron Hawkins</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Canadian Agri-Marketing Association (Ontario) Scholarship [I0541]</td>
<td>Provided by the Canadian Association of Agri-Marketing Association (Ontario). Apply to the O.A.C. Awards Committee by May 15 with a summary of participation in the Ag Ec &amp; Biz Society and in agri-marketing initiatives as well as a letter of recommendation from a faculty member.</td>
<td>Students who have completed a minimum of 10.0 credits with a minimum cumulative average of 70% who are members of O.A.C. and the Ag Ec &amp; Biz Society. Selection will be based on a combination of academic achievement and a demonstrated interest in agri-marketing.</td>
<td>Canadian Agri-Marketing Association (Ontario)</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Scholarship Name</td>
<td>Amount</td>
<td>Donor(s)</td>
<td>Qualification(s)</td>
<td>Description</td>
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<tr>
<td>Central Canadian Chapter of The Society of Industrial and Office REALTORS® Scholarship</td>
<td>1 award of $3,000</td>
<td>Central Canadian Chapter of the Society of Industrial and Office REALTORS® (SIOR)</td>
<td>Students registered in the Real Estate and Housing major of the BComm program who have completed a minimum of 10.0 credits and who have a demonstrated interest in or made contributions to the real estate and housing profession.</td>
<td>Apply by May 15 to the Department of Marketing and Consumer Studies with a resume demonstrating interest or contributions to the real estate and housing profession. Scholarship recipient will be invited to attend the SIOR annual early December meeting for award presentation.</td>
</tr>
<tr>
<td>CFRU Volunteer Award [I0215]</td>
<td>2 awards of $250</td>
<td>Station Manager, CFRU</td>
<td>Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU.</td>
<td>Apply to the CFRU Board of Governors by April 30.</td>
</tr>
<tr>
<td>CGA Ontario Scholarships [I0788]</td>
<td>1 award of $1,000</td>
<td>Certified General Accountants of Ontario</td>
<td>Students registered in the Accounting major of the Bachelor of Commerce program with a minimum cumulative average of 75% who have completed 15.0 credits including three electives in a non-accounting area.</td>
<td>Certified General Accountants of Ontario (CGA Ontario), is a self-governing body that grants the exclusive rights to the CGA designation in the province of Ontario. Apply by May 15 to the CME Awards Committee with a 500 word statement which includes a description of the positive impact of completed non-accounting electives toward a career as a CGA and the intent to pursue a CGA designation post-graduation. Selection will be made on high cumulative average and the strength of the 500 word statement which includes a description of the positive impact of completed non-accounting electives toward a career as a CGA and the intent to pursue a CGA designation post-graduation with a preference given to students who explain their intent to pursue their CGA designation within 2 years of graduation.</td>
</tr>
<tr>
<td>Cheryl Somerville Memorial Leadership Scholarship [I0647]</td>
<td>1 award of $200</td>
<td>Family and Friends of Cheryl Somerville</td>
<td>Students registered in the B.Sc.(Agr.) or the B.Comm. Agricultural Business program who have completed 7.5 credits with a 70% minimum cumulative average.</td>
<td>Established by family and friends in memory of the late Cheryl Somerville, OAC'96, to recognize the outstanding and significant leadership contributions of students. Selection will be based on leadership contributions to the college and/or university during the first three semesters; community, 4H and Junior Farmer activities will also be considered. Application is by nomination. Nominations will be made by Student Federation of the O.A.C. and must include a brief resume of the nominee and a statement of his/her leadership contributions along with an outline of the impact of those contributions to student and community life. Nominations are due in the OAC Awards Office by December 1st.</td>
</tr>
<tr>
<td>Class of ‘51 O.A.C. Leadership Prizes [C0063]</td>
<td>5 awards of $2,000</td>
<td>Year ‘51 O.A.C.</td>
<td>Students graduating from the degree program in a major in an O.A.C. department who have a 70% standing in the final year of study and who have demonstrated leadership in the College or University extracurricular activities.</td>
<td>Established by Year ‘51 O.A.C., on the occasion of its 45th anniversary. At the discretion of the O.A.C. Awards Committee students may be selected before graduation. Application is not required.</td>
</tr>
<tr>
<td>Class of ’67 O.A.C. Centennial Scholarship [I0067]</td>
<td>1 award of $2,000</td>
<td>Class of O.A.C. ’67</td>
<td>Student majoring in an O.A.C. department who through activity in all branches of college life as well as scholastic achievement has made an outstanding contribution to the University.</td>
<td>Apply by May 15 to the OAC Awards Office with a letter outlining participation in extracurricular activities in all branches of college life. Awarded in the fall semester.</td>
</tr>
<tr>
<td>Class of 1970 Scholarship [I0442]</td>
<td>1 award of $900</td>
<td>Class of 1970: 25th Reunion Gift</td>
<td>Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’ Honours List.</td>
<td>Established by the Silver Anniversary celebrants to commemorate the 25th anniversary of the University Class of 1970. This award rotates among all six colleges on the main campus. The appropriate College Award Committee selects the candidate each Fall semester and the candidate is announced each October. Application is not required.</td>
</tr>
<tr>
<td>Clayton and Dorothy Switzer Scholarships [I0276]</td>
<td>1 award of $2,000</td>
<td>Clayton and Dorothy Switzer</td>
<td>Students registered in a degree program offered by O.A.C. with a minimum of 10.0 credits completed, at least a 70% cumulative average and has demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal.</td>
<td>Apply by May 15 to the OAC Dean's Office (Awards) with a letter outlining how you have demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal.</td>
</tr>
<tr>
<td>CME Distinguished Scholar Medal – Undergraduate (Winegard Medal Nominee) [C0685]</td>
<td>1 Medal</td>
<td>Faculty, Staff, Alumni, and Students, College of Management and Economics</td>
<td>CME's Winegard Medal nominee.</td>
<td>To honour the outstanding achievements of a graduating undergraduate student in the College of Management and Economics. Application not necessary.</td>
</tr>
<tr>
<td>CME Distinguished Scholar Medal- Undergraduate (Highest Cumulative Average) [C0728]</td>
<td>1 of a Medal</td>
<td>Faculty, Staff, Alumni, and Students, College of Management and Economics</td>
<td>Students who are graduating in June, or who have graduated in the previous two convocations from the College of Management and Economics.</td>
<td>This medal is presented to the student with the highest overall cumulative average. No application necessary.</td>
</tr>
<tr>
<td>Collins Barrow Award [I0040]</td>
<td>1 award of $500</td>
<td>Collins Barrow Chartered Accountants</td>
<td>Student with the highest grade in course ACCT3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship will be given to the student with the highest cumulative average in their program.</td>
<td>Offered by Collins Barrow, a national firm of Chartered Accountants. Application is not required.</td>
</tr>
<tr>
<td>Coach Rudy Florio Football Scholarship [I0737]</td>
<td>1 award of $3,500</td>
<td>Mr. Rudy Florio</td>
<td>Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.</td>
<td>Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.</td>
</tr>
</tbody>
</table>

Last Revision: Oct. 19, 2012  2012-2013 Undergraduate Calendar
CSS Alumni Heritage Scholarship [10616]

Established to recognize the valuable contributions made by CSS alumni and CSS Alumni Association to the life and vitality of the University. These scholarships will be awarded to students with the highest cumulative program average. This scholarship may be held only once. Application is not required.

Donor(s): CSS Alumni Heritage and the Dean of CSASH
Qualification(s): Students registered in any Economics major or the Marketing Management major, who have completed between 7.5 and 12.5 credits, and are registered in the same majors for the subsequent fall semester with a minimum cumulative average of 80.0%.
Amount: 2 awards of $1,000

David F. Boyes Apiculture Scholarship [10031]

Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application is not required.

Donor(s): The Apiculture Club
Qualification(s): Student registered in the Fall semester who achieves high academic standing in Introductory Apiculture (ENVB*2210) in the previous year, demonstrates an interest in apiculture and who has participated in extracurricular activities.
Amount: 1 award of $150

Dawn Morris Memorial Prize [C0361]

Offered in memory of Dawn Morris, who spent 35 years in farm show business and was former Manager of the Canadian International Farm Equipment Show in Toronto. Selection will be based on the basis of relevant course work in agricultural marketing, extracurricular participation and employment activities. Students are encouraged to submit information on extracurricular activities to the O.A.C. Awards Office, by April 1.

Donor(s): The Family of Dawn Morris
Qualification(s): Student who is graduating from the Agricultural Business major of the B.Comm. degree or the Food Agriculture and Resource Economics major in the B.Sc.(Agr.) degree with a minimum ‘B+’ average.
Amount: 1 award of $900

Deans’ Scholarships [10323]

This award was established by the Board of Governors in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.

Donor(s): Board of Governors
Qualification(s): Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.
Amount: 150 awards of $1,000

Dorothy Shantz Memorial Scholarship - Fourth Year [10256]

Established by the Canadian Hospitality Foundation. Apply to the HTM Awards Committee by January 31 using the standard HTM scholarship application form.

Donor(s): Canadian Hospitality Foundation
Qualification(s): Student registered in a major offered by the School of Hospitality and Tourism Management who has completed at least 15.00 credits (normally in the eighth semester) with a minimum 70% cumulative average and who shows enthusiasm for the foodservice industry. The recipient must have demonstrated leadership ability by holding an executive position on a student organization of the School of Hospitality and Tourism Management.
Amount: 1 award of $1,000, 1 Engraved Plaque

Dorothy Shantz Memorial Scholarship - Third Year [10496]

Established by the Canadian Hospitality Foundation. Apply to the HTM Awards Committee by January 31 using the standard HTM scholarship application form.

Donor(s): Canadian Hospitality Foundation
Qualification(s): Student registered in a major offered by the School of Hospitality and Tourism Management who has completed at least 11.00 credits but no more than 14.50 credits (normally in the sixth semester) with at least a 70% average in the last two full-time equivalent semesters and who shows enthusiasm for the foodservice industry. The recipient must have demonstrated leadership ability by holding an executive position on a student organization of the School of Hospitality and Tourism Management.
Amount: 1 award of $1,000, 1 Engraved plaque

Douglas M. Robinson Memorial Prize for Excellence in Communications [10409]

In memory of Douglas Robinson (O.A.C.'53), and in conjunction with the establishment of an innovative curriculum in agricultural science at the University of Guelph in 1995, the Innovative Farmers’ Association of Ontario and the Robinson family provide this annual prize. Apply by May 15th to the OAC Awards Office, Johnston Hall with a letter describing how these courses have helped to communicate effectively and indicate ways in which the courses have been used to contribute to success. A letter from the course instructor would also be considered. Selection will be based on demonstrated excellence in communication.

Donor(s): The Innovative Farmers Association of Ontario
Qualification(s): Students registered in any degree program offered by OAC who have completed one or more of the following courses with a minimum grade of 75% in each course completed: EDRD*3050 Agricultural Communication; EDRD*3120 Educational Communication; EDRD*3140 Organizational Communication; EDRD*3160 International Communication; ENVB*3000 Nature Interpretation.
Amount: 1 award of $1,000

Dr. John E. Kean Scholarship [10447]

Established by the Canadian Standards Association as a gift on the occasion of Dr. Kean’s retirement as President and CEO of the Canadian Standards Association (now CSA International). Apply by May 15th to the Department of Marketing and Consumer Studies Awards Committee using the Undergraduate In-course Scholarship Application, including a letter highlighting interest in management, consumer interests, and for sustainability of Canadian business as well as leadership potential. Selection will be based on academic achievement and the submitted letter.

Donor(s): CSA International
Qualification(s): Students registered in the Marketing Management major of the B.Comm program who have completed at least 10.0 credits but no more than 15.0 credits.
Amount: 1 award of $500

Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [10605]

Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

Donor(s): Various Donors
Qualification(s): Current member of the Varsity Cross/Country or Track and Field Team, who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,350

Dr. R. J. Hilton Memorial Scholarship [10678]

Established to honour the accomplishments of Dr. Hilton as the Chair, Horticulture Science, University of Guelph, first Director of the Arboretum and President/Chair of the Royal Botanical Gardens. Selection will be based on the highest cumulative average, demonstrated involvement in horticulture activities and involvement in academic club activities. Summer related work experience will also be considered. Preference will be given to students registered in B.Sc.(Agr.) CHATS and B.Sc. Plant Science. Apply by May 15 to the O.A.C. Awards Office with a letter outlining the plant agriculture course(s) and/or involvement in horticultural activities and summer related work experience or information about involvement in academic club activities.

Donor(s): Robert E. Hilton
Qualification(s): Students registered in any program offered by O.A.C. who have completed a minimum 8.0 credits with a minimum 70% cumulative average.
Amount: 1 award of $1,000

E.D. Smith Scholarship in Food Service Administration [10364]

Offered by E.D. Smith and Sons Ltd., a multi-faceted processor of foods. Apply to HTM Awards Committee by January 31 using the standard HTM scholarship application form and include a resume and statement of interest in the foodservice industry.

Donor(s): E.D. Smith & Sons Ltd.
Qualification(s): Student who has demonstrated an interest in the foodservice industry, has maintained a minimum of ‘B’ average and has completed 7.00 to 10.50 credits of a major offered by the School of Hospitality and Tourism Management. The scholarship will be awarded on the basis of interest in foodservice operations and academic standing. Interest in the foodservice industry can be demonstrated by work experience or active membership in the Canadian Association of Foodservice Professionals (CAFP, formerly CFSEA).
Amount: 1 award of $1,000
<table>
<thead>
<tr>
<th>Scholarship Name</th>
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<tr>
<td>Elaine Scott-Thomas Track and Field Scholarship</td>
<td>[I0706]</td>
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<td>G.H. Mann Food Service Scholarship</td>
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<td>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship</td>
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<td>Football Endowment Fund (EFF) Scholarship</td>
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<td>George A. Gray O.A.C. ’51 Varsity Scholarships</td>
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<td>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews</td>
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<td>Gerd and Christel Baldau Men's Basketball Scholarship</td>
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<td>Gonder Family Centre for Students with Disabilities Volunteer Scholarship</td>
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**Elaine Scott-Thomas Track and Field Scholarship [I0706]**

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Dave Scott-Thomas CBS BSc ’88

**Qualification(s):** Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete

**Amount:** 1 award of $1,500

**Embry Family Scholarship [I0736]**

Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Mrs. Frances M. Stretton

**Qualification(s):** In-course student-athlete who is a current member of the Men’s basketball varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $3,500

**Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [I0627]**

Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Ernest Kendall

**Qualification(s):** In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 2 awards of $1,350

**Football Endowment Fund (EFF) Scholarship [I0644]**

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Various University of Guelph donors

**Qualification(s):** In-course student-athlete who is a current member of the Men’s football team and has achieved a minimum 70% average in the previous academic year.

**Amount:** various awards of $750 to $3,500

**Frances M. Stretton Scholarship [I0768]**

Selection will be based on significant prior contributions to and experience in community-based service. Preference will be given to students working on a project related to nutrition, food safety or sustainability within the College. Apply to the CSAHS Awards Committee by May 15th with a summary letter outlining prior contributions to and experience in community-based service and how funds would be used to support participation in curriculum-embedded experiential learning opportunities in the following academic year.

**Donor(s):** Mrs. Frances M. Stretton

**Qualification(s):** Students registered full-time in any program offered by the College of Social and Applied Human Sciences with a minimum of 75% cumulative average who are participating in curriculum-embedded community-based experiential learning in the following academic year.

**Amount:** 1 award of $3,000

**Frank Hughes Memorial Scholarship [I0552]**

Pannell Kerr Forster (PKF) Consulting Inc. provides this award to a student in the B.Comm. program in any major offered by the School of Hospitality and Tourism Management. The winner will be chosen on the basis of three criteria: 1) industry work experience; 2) academic achievement; and 3) extracurricular involvement. Apply to the HTM Awards Committee by January 31st using the standard HTM scholarship application form. Include a resume outlining relevant industry work experience and a detailed list of extracurricular involvement.

**Donor(s):** Pannell Kerr Forster (PKF) Consulting Inc.

**Qualification(s):** Full-time student B.Comm. program in any major offered by the School of Hospitality and Tourism Management who has completed between 11.0 and 14.5 course credits.

**Amount:** 1 award of $1,000

**G.H. Mann Food Service Scholarship [I0174]**

Preference will be given to a student who has contributed to the ongoing success of the Hospitality Services Department of the University. Apply to the HTM Awards Committee by January 31 by using the standard HTM scholarship application form and include a statement of up to 500 words explaining interest in the foodservice industry.

**Donor(s):** G.H. Mann Memorial Fund and M. Mann of Guelph

**Qualification(s):** Student who is registered in semester 8 of the B.Comm. program, in a major offered by the School of Hospitality and Tourism Management, and has a minimum cumulative average of 70%. In addition, the recipient will have an interest in, and have participated in, activities conducive to a career in the foodservice industry.

**Amount:** 1 award of $300

**George A. Gray O.A.C. ’51 Varsity Scholarships [I0487]**

Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

**Donor(s):** Mrs. George A. Gray

**Qualification(s):** In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 2 awards of $1,250

**George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [I0677]**

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** George Ames

**Qualification(s):** In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $3,500

**George D. Bedell Prize [C0352]**

The HTM Students Council presents a plaque to a graduating student of the School in honour of George D. Bedell, the first director of the School of Hospitality and Tourism Management. The HTM Awards Committee will conduct an election with the graduating class and select the recipient during the winter semester. Application is not required.

**Donor(s):** The HTM Students’ Council

**Qualification(s):** Student graduating from the B.Comm. program, in a major offered by the School of Hospitality and Tourism Management who, in the minds of his or her fellow students, has demonstrated the outstanding leadership, versatility of interests and involvement in community affairs, both within and outside the School, that exemplifies the sense of professionalism to which the fourth year students have dedicated themselves.

**Amount:** 1 award of a Plaque

**Gerd and Christel Baldau Men's Basketball Scholarship [I0639]**

Established by Christian Baldau, BSc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. Christian Baldau

**Qualification(s):** In-course student-athlete registered in the BSc. program who is a current member of the Men's Basketball varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $3,500

**Gonder Family Centre for Students with Disabilities Volunteer Scholarship [I0563]**

In recognition of the many students who volunteer their time and talents to assist their colleagues registered with the Centre for Students with Disabilities (CSD) and to encourage others to do so, Dr. John and Mrs. Katherine Gonder provide this award to a student who has volunteered in the CSD. The award will be made on the basis of the volunteer activities undertaken by the student at the CSD, one letter of reference, and a personal statement that outlines the time commitment and types of volunteer activities undertaken as well as an indication of how this was a valuable and rewarding volunteer experience. Apply by January 15th to the CSD (c/o Advisor to Students with Disabilities) by submitting above documentation.

**Donor(s):** Dr. John and Mrs. Katherine Gonder

**Qualification(s):** All students registered in the College of Social and Applied Human Sciences (CSAHS) that have completed between 10.0 and 15.0 course credits with a minimum 70% cumulative average, and have been involved as volunteers with the CSD.

**Amount:** 1 award of $900
Gonder Family Scholarship [10580]
Established in recognition of the diversity of student abilities and the varying challenges of undergraduate study. The recipient will be chosen on the basis of academic achievement with a preference to students enrolled in any CME major of the B.Comm. program. Application is not required.

**Donor(s):** Dr. John and Mrs. Katherine Gonder

**Qualification(s):** All students in the CME who have completed between 10.0 and 15.0 course credits with a minimum 70% cumulative average, and who have been identified with a learning disability through the University of Guelph's Centre for Students with Disabilities.

**Amount:** 1 award of $900

Governer General's Medal [C0044]
Established by the Office of the Governor General of Canada. Application is not required.

**Donor(s):** The Chancellery

**Qualification(s):** Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.

**Amount:** 2 awards of a Silver medal each

Greater Toronto Hotel Association Scholarship [10573]
Each January, the HTM Awards Committee will invite the students with the top five grades in the previous winter semester’s offering of HTM*2100 to submit a statement of up to 500 words explaining their interest in the lodging industry. The recipient will be selected based on academic performance and the statement of interest.

**Donor(s):** Greater Toronto Hotel Association

**Qualification(s):** Students in a major of the B.Comm. degree program offered by the School of Hospitality and Tourism Management and have completed HTM*2100 (Lodging Operations).

**Amount:** 1 award of $1,000

Growmark, Inc. and Ontario FS Cooperatives Scholarship [10289]
Apply by May 15th to the OAC Awards Office with a letter of no more than two pages outlining your extracurricular activities, community service or agricultural employment, farming background and career aspirations. Preference will be given to students with an Ontario farm background and interest in pursuing full-time employment in agriculture in the province of Ontario after graduation. Selection will be made on leadership abilities as demonstrated by involvement in extracurricular activities, community service or agricultural employment.

**Donor(s):** Growmark, Inc.

**Qualification(s):** Students with a minimum of 70% cumulative average who have completed 6.0 credits of the B.Sc.(Agr.) degree program or the B.Comm. Agricultural Business major or 10.0 credits of the Bachelor of Bio-Resource Management degree program.

**Amount:** 2 awards of $1,000

Gryphon Athletic Scholarships [10631]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** University of Guelph

**Qualification(s):** In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** various awards of $750 to $3,500

Guelph & District Human Resource Professionals Association [10656]
Apply to the CME Award Committee by May 15 and include a statement of up to 500 words explaining interest and experience in the human resources field and involvement in the Human Resources Management Student Association (HRMSA), Human Resources Professionals Association of Ontario (HRPAC) and/or participation in other HR related activities such as case competitions. Selection will be based on academic performance and the student-statement detailing the type and kind of involvements requested.

**Donor(s):** Guelph & District Human Resource Professionals Association (GDHRPA)

**Qualification(s):** Students registered in the Human Resources Management major of the B.Comm. program offered by the College of Management Economics who have completed at least 12.5 credits but no more than 15.0 credits with a minimum 75% in the last two full-time equivalent semesters.

**Amount:** 1 award of $1,500

Guelph Trillium Rotary Club Scholarship for Work-Term Excellence [10562]
Students must have submitted their work term report to the department 10 days after completion of work term to be considered for this award. Selection will be based on performance in the work term as evaluated by employer and quality of work term report as evaluated by program academic advisor. No application necessary.

**Donor(s):** Guelph Trillium Rotary Club

**Qualification(s):** Students registered in the Bachelor of Commerce Co-op program and majoring in Marketing Management who have successfully completed at least one work term.

**Amount:** 1 award of $1,000

Hafa HTM Alumni Association Scholarship [10501]
Established by the School's Alumni Association in recognition of student involvement in the life of School of Hospitality and Tourism Management and/or the University. Apply by January 31 using the standard HTM scholarship application form to the HTM Awards Committee.

**Donor(s):** The HTM Alumni Association

**Qualification(s):** Awarded to students registered in the B.Comm. program, in a major offered by the School of Hospitality and Tourism Management. One scholarship will be awarded to a student who has completed at least 7.00 credits (but no more than 10.50 credits) and the second award will be given to a student who has completed at least 11.00 credits (but no more than 14.50 credits). Applicants must have at least a 70% average in the last two full-time equivalent semesters. The recipient must have participated in extracurricular activities at the University of Guelph.

**Amount:** 2 awards of $1,000

Heimbecker Scholarship in Entrepreneurship [10388]
The Heimbecker Award in Entrepreneurship has been established by the friends and associates of Herb Heimbecker, on his retirement as a Director of Goderich Elevators, to honour his contributions to the agri-food industry in Canada. Students should apply by May 15 to the O.A.C. Awards Office and include a resume and a letter highlighting their entrepreneurial skills and their aptitude and interest in business. Awarded in the fall semester.

**Donor(s):** The friends of Herb Heimbecker at Goderich Elevators

**Qualification(s):** Students registered in the B.Sc.(Agr.) or B.Com., Agribusiness major, who have completed semester 6 with a minimum 'B' standing (73%-76%) in their previous full-time year or equivalent [5.00] credits, have demonstrated entrepreneurial skills and display an aptitude and an interest in business.

**Amount:** 1 award of $500 and a framed certificate

Homestead Land Holdings Prize [10629]
This scholarship recipient will be selected based on academic performance and demonstrated interest and experience in the residential property management field. Apply to the Marketing & Consumer Studies Awards Committee by May 15 with a statement of up to 500 words explaining your interest and experience in the residential property management field.

**Donor(s):** Homestead Land Holdings Ltd.

**Qualification(s):** Students registered in the Real Estate and Housing major of the B.Comm. degree program offered by the College of Management Economics who have completed at least 14.0 credits but no more than 17.5 credits with a minimum 70% in the last two full-time semesters.

**Amount:** 1 award of $2,000

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Last Revision: Oct. 19, 2012
HOSPITALITY FINANCIAL & TECHNOLOGY PROFESSIONALS SCHOLARSHIP [01610]
The H.F.T.P. is dedicated to advancing and supporting the professionalism of individuals working in the finance and technology fields of the hospitality industry. Preference will be given to students who are Canadian citizens or permanent residents. The recipient will be selected based on academic performance and extracurricular activities. Apply to the HTM Awards Committee by January 31 using the HTM Awards Application and include a resume and a complete list of extracurricular activities.

**Donor(s):** Hospitality Financial & Technology Professionals (H.F.T.P.)
**Qualification(s):** Students registered in a major of the B.Comm. degree program offered by the School of Hospitality and Tourism Management who have completed at least 7.0 credits but no more than 10.5 credits with a minimum 75% in the last two full-time equivalent semesters.
**Amount:** 1 award of $1,000

HOTEL HUMAN RESOURCE PROFESSIONALS ASSOCIATION OF GREATER METROPOLITAN TORONTO SCHOLARSHIP [01645]
Apply by January 31 to the HTM Awards Committee using the standard HTM scholarship application form including a resume and a report on the work experience or project.

**Donor(s):** Hotel Human Resource Professionals of Greater Metropolitan Toronto
**Qualification(s):** Students registered in the School of Hospitality and Tourism Management who have at least a combined B+ average in the courses Organizational Behaviour I (BUS*2200) and Human Resource Management (BUS*3000). As well, the student must have either work experience in the human resource area, or have worked in the hospitality and tourism industry (and have successfully completed a human resource-related project either on the job or in the relevant course work).
**Amount:** 1 award of $1,000

HTM CAREER AWARENESS SCHOLARSHIPS [01637]
Recipients will be selected based on a combination of academic performance, statement of interest, extracurricular activities and work experience. Apply by January 31 to the HTM Awards Committee using the standard HTM Awards Application Form and include a list of extracurricular activities and a statement of up to 500 words, indicating interest in the hospitality and/or tourism industry.

**Donor(s):** Various Hospitality and Tourism Corporations
**Qualification(s):** Students registered in a major of the BComm. program offered by the School of Hospitality and Tourism Management who have completed at least 2.0 credits with a minimum 75% average in the last full-time equivalent semester and demonstrated a continued interest in the hospitality industry.
**Amount:** several awards ranging in value from $1,000 to $2,500

INTERNATIONAL UNDERGRADUATE SCHOLARSHIP [01577]
Established through a student referendum approved by the undergraduate student body, to recognize international students’ academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University and two academic and/or professional references. This award can only be held once by the student.

**Donor(s):** International Student Organization (ISO)
**Qualification(s):** Full-time International students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 credit hours from the University of Guelph with a minimum cumulative average of 75%.
**Amount:** 2 awards of $2,000

JACK AND LI LLIAN MACDONALD SCHOLARSHIP [010379]
Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald
**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).
**Amount:** 1 award of $900

JAMES MACMILLAN MEMORIAL SCHOLARSHIP [010494]
Established in memory of James MacMillan, his great uncle, by Austin Conway of Toronto. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter indicating the program at Kempville in which the applicant graduated from to Student Financial Services by October 7.

**Donor(s):** Austin Conway
**Qualification(s):** Kempville College graduate with a minimum 75% cumulative average at convocation who registers in the O.A.C. degree program in Agriculture or in Agriculture and Business.
**Amount:** 1 award of $2,500

JANET M. WARDLAW MEDAL [C0096]
Established in honour of the many contributions of Dr. Janet M. Wardlaw, a former Dean of the College of Family and Consumer Studies. Application is not required.

**Donor(s):** Faculty, staff, alumni and students, formerly FACS
**Qualification(s):** Presented to the Department of Family Relations and Applied Nutrition's nominee for the Winegard Medal.
**Amount:** 1 award of a Medal

JIM STOKMAN MEMORIAL SCHOLARSHIP [01386]
Mrs. Stokman and family, including her sons Nick (O.A.C.'77) and Andrew (O.A.C.'84) have established this award in memory of her husband and their father to recognize his lifetime contribution to the family farm. Apply by May 15th to the OAC Awards Office with a letter that indicates rural background and demonstrated community/student involvement both during high school and the first two semesters of University.

**Donor(s):** Mrs. Jim Stokman
**Qualification(s):** Available to O.A.C. students who have completed 5.0 credits with at least 'B' average in one of the following programs: B.Com. (Agr.), B.Com., B.Sc. or B.Sc. (Env.). Students must have come from a rural background and have demonstrated community/student involvement both during high school and the first two semesters of University.
**Amount:** 1 award of $550

JOAN DOHERTY MEMORIAL GRADUATE SCHOLARSHIP [C0090]
A scholarship has been established in memory of Joan Doherity, Class '78, by her family. An application, accompanied by a one-page written statement indicating the student's purpose, goals and objectives in pursuing graduate study, must be submitted to the Marketing & Consumer Studies Awards Committee Awards Committee by February 1.

**Donor(s):** Mr. Thomas B. Doherity
**Qualification(s):** Member of the graduating class in Marketing & Consumer Studies who will be continuing his or her education at the Master's or Doctoral degree level in a Canadian university. The scholarship recipient will be determined on the basis of academic promise as evidenced by undergraduate academic achievement. Should equally qualified students make application for the scholarship, preference will be given to previous winners of the Joan Doherity Memorial Scholarship.
**Amount:** 1 award of $2,000

JOAN DOHERTY MEMORIAL SCHOLARSHIP [01091]
The family of Joan Doherity, class of FACS '78, has established this scholarship in her memory. Apply by May 15 to the Department of Marketing & Consumer Studies Awards Committee, stating involvement in extra-curricular activities.

**Donor(s):** Mr. Thomas B. Doherity
**Qualification(s):** Students entering semesters 5, 6 or 7 of the Real Estate and Housing or Marketing Management majors of the B.Comm. program with a minimum cumulative average of 70% and who are active in extra-curricular activities.
**Amount:** 1 award of $2,000

JOHN BURTON SCHOLARSHIP [01642]
Established by Dr. John Burton, BSA 1962, a former faculty member in the Department of Animal and Poultry Science. Selection will be based on involvement with and contribution to the horse industry, future career aspirations in the horse industry sector and participation in community activities. Preference will be given to student who have demonstrated leadership ability within the student body. Apply by May 15 to the OAC Awards Office with a letter, of no more than two-pages, outlining involvement with and contributions to the horse industry, career aspirations, and extracurricular involvements. Awarded in the fall semester.

**Donor(s):** Dr. John Burton
**Qualification(s):** Students registered in any program offered by the OAC who have completed between 10.0 and 12.0 credits with a minimum 70% average
**Amount:** 1 award of $1,000

Last Revision: Oct. 19, 2012
### The John Deere Foundation of Canada Scholarship [I0516]

Established through the generosity of The John Deere Foundation of Canada to recognize academic excellence. Application is not required.

**Donor(s):** The John Deere Foundation of Canada  

**Qualification(s):** Student registered in the B.Sc. Agr (Food Agriculture and Resource Economics), B.Sc.(Agr.) Agronomy, B.A. (Food Agriculture and Resource Economics), or B.Comm (Agricultural Business) program, who has completed a minimum of 15.0 credits. Selection will be based on the student with the highest cumulative average. A student may be receive this award only once.

**Amount:** 1 award of $2,000

### John Eccles Scholarship [I0093]  

Apply to Student Financial Services, by May 15, with a letter highlighting leadership abilities through participation on residence life. Providing a reference letter would be an asset.

**Donor(s):** Student Housing Services  

**Qualification(s):** Full-time student registered in semester 2, 3, 4, 5 or 6 and living in residence in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.

**Amount:** 1 award of $600

### John J. Campbell Memorial Scholarship [I0453]

Provided by the Food Service Purchasing Association of Canada (FPAC) in memory of John J. Campbell, former President of the Association. Apply by January 31 with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, and attach a letter describing your interest in food service management.

**Donor(s):** Food Services Purchasing Association of Canada  

**Qualification(s):** Students in the B.Comm. program in a major offered by the School of Hospitality and Tourism Management, with demonstrated financial need, who have completed at least 7.0 credits but no more than 10.5 credits at the time of application, and have at least a 70% average in the last two full-time equivalent semesters. Preference will be given to students who have (1) an interest in food service management and (2) demonstrated financial need. Students must be registered full-time in the (winter) semester during which they receive the award.

**Amount:** 1 award of $1,000

### John Kenneth Galbraith Scholarship in Economics [I0108]

Selection will be based on the highest combined average in Economics (ECON) courses. No application necessary.

**Donor(s):** The Board of Governors, University of Guelph  

**Qualification(s):** Students registered in any major offered by the Department of Economics who have completed between 12.50 and 15.00 credits.

**Amount:** 1 award of $600

### Kae and Gordon Skinner Memorial Scholarship [C0258]

Provided by the late Kae Stalker Skinner (Mac '30) and Gordon Skinner (O.A.C. '24), former Registrar of the Ontario Institute of Agrologists. Consideration will be given to participation in the Student Branch of the Ontario Institute of Agrologists. Apply to the O.A.C. Awards Office by April 1 with a letter demonstrating contributions to agrology.

**Donor(s):** The estates of the late Mr. and Mrs. A.G. Skinner  

**Qualification(s):** O.A.C. student graduating from the B.Sc. (Agr.), B.Sc., or B.Comm. programs who has made a significant contribution to developing an understanding of the profession of agrology among fellow students.

**Amount:** 1 award of $750

### Katherine Fuller Scholarship [I0107]

Established in 1931 in honour of Mrs. Katherine Fuller, the Superintendent of Macdonald Hall from 1904 until her retirement in 1931. Apply to the FRAN Undergraduate Awards Committee by May 15 with a one-page description of contributions to student activities. The award will be given to the student who has made the greatest contribution to student activities in residence or on campus.

**Donor(s):** Mac-FACS-FRAN Alumni Association  

**Qualification(s):** Full-time students registered in a program offered by the Department of Family Relations and Applied Nutrition, who have completed between 5.0 and 10.0 credits with a minimum cumulative average of 70%.

**Amount:** 1 award of $1,000

### Kelly Bertrand Cross Country Scholarship [I0684]

The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand  

**Qualification(s):** Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $2,000

### Ken and Marilyn Murray Scholarship [I0734]

Dr. Kenneth G. Murray C.M., OAC BSA ’50 and Honourary Doctor of Laws ’96, and Mrs. Marilyn C. Murray, Mac BHSc ’55, established this scholarship. Selection will be based on significant prior contributions to and experience in community-based service. Apply to the CSAHS Awards Committee by May 15th with a summary letter outlining prior contributions to and experience in community-based service, and how funds would be used to support participation in curriculum-embedded experiential learning opportunities in the following academic year.

**Donor(s):** Dr. Kenneth G. and Mrs. Marilyn C. Murray  

**Qualification(s):** Full-time students registered in the College of Social and Applied Human Sciences with a minimum 75% cumulative average who are participating in curriculum-embedded community-based experiential learning in the province of Ontario in the following academic year will be eligible for this award.

**Amount:** 1 award of $2,000

### Kenneth W. Hammond Prize [I0045]

The evaluation of the student will be based on the final essay in the "Environmental Perspectives and Human Choice: 5000 Days" course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

**Donor(s):** Kenneth W. Hammond  

**Qualification(s):** Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.

**Amount:** 1 award of $1,000

### Kevin Durie Memorial Scholarship [I0653]

Established in memory of Kevin Durie, BA '93, by his family and friends. Selection will be based on demonstration of outstanding service as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

**Donor(s):** Christine Blake-Durie  

**Qualification(s):** Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.

**Amount:** 1 award of $1,000

### Kip Hunter Prize [I0139]

For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

**Donor(s):** Faculty, students and staff of the Philosophy Department  

**Qualification(s):** Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.

**Amount:** 1 Book prize
IX. Scholarships and Other Awards, Bachelor of Commerce

Lambda Foundation Scholarship in LBGT Studies [10591]
This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a given student only once. Projects must have been completed or research proposals accepted within the past calendar year. Apply to the Department of Marketing and Consumer Studies. The recipient will be selected based on academic achievement and involvement and leadership in extracurricular activities. Applicants must submit a resume by May 15 detailing extracurricular activities and leadership roles at university to the Department of Marketing and Consumer Studies.

Donor(s): Lambda Foundation and other donors
Qualification(s): Students enrolled in a program with a thesis, a research essay, independent research project or course work projects pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.
Amount: 1 award of $1,000

Larry Pearson Men’s Volleyball Athletic Scholarships [10618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Larry Pearson
Qualification(s): In-course student-athlete who is a current member of the men’s varsity volleyball team and has achieved a minimum 70% average in the previous academic year.
Amount: several awards up to $3,500

Latifpoor-Keparoutis Family Varsity SwimTeam Scholarship [10732]
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Maryam Latifpoor-Keparoutis
Qualification(s): Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,200

Latremoille Marketing Management Scholarship [10717]
The recipient will be selected based on academic achievement and involvement and leadership in extracurricular activities. Applicants must submit a resume by May 15 detailing extracurricular activities and leadership roles at university to the Department of Marketing and Consumer Studies.

Donor(s): Mr. Gregory Latremoille
Qualification(s): Students registered in the B.Comm Marketing Management major who have completed at least 9.0 credits with a minimum 80% cumulative average.
Amount: 4 awards of $2,500

Leo Lecours Memorial Scholarship [10542]
Lecours Wolfson, a Canadian hospitality management and chef recruitment firm, provides this scholarship in memory of Leo Lecours. Apply to the HTM Awards Committee by January 31, using the standard HTM scholarship application form. Include a 500-word statement on career goals and objectives. The faculty of the School of Hospitality and Tourism Management will also be invited to nominate deserving students and to provide information on the nominees. Nominees will be invited to submit the 500-word statement.

Donor(s): Norman Wolfson
Qualification(s): Student in the B.Comm. program, in a major offered by the School of Hospitality and Tourism Management, who has made the greatest potential contribution to the School and/or the hospitality industry. Particular attention will be paid to those applicants and nominees who are keenly focused on and enthusiastic about a career in the hospitality industry.
Amount: 1 award of $500

Leonard Conolly Exchange Student Scholarship [10446]
Established by students, faculty, staff and friends to honour Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-1988, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

Donor(s): Students, staff, faculty and friends of Dr. Leonard Connolly
Qualification(s): Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).
Amount: 1 award of $1,000

Lloyd Dorr Memorial Hockey Scholarship [10708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Committee. No application is necessary.

Donor(s): Family and Friends of the late Lloyd Dorr
Qualification(s): Current member of the men’s varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,000

Mac ’41 Marketing Scholarship [10214]
The recipient of the award will have received the highest grade in MCS*3500 in the previous academic year. Application is not required.

Donor(s): The Class of Macdonald Institute 1941 (Mac ’41)
Qualification(s): Students registered in the Marketing Management major of the B.Comm. program who has completed the course "Market Analysis and Planning" (MCS*3500) in the previous academic year.
Amount: 1 award of $1,000

Mac-FACS Alumni Association Scholarship - Marketing and Consumer Studies [10523]
Awarded to the student with the highest cumulative average. Application is not required.

Donor(s): Mac-FACS-FRAN Alumni Association
Qualification(s): Full-time students registered in the Department of Marketing & Consumer Studies who have completed between 5.0 and 10.0 credits with a minimum cumulative average of 80%.
Amount: 1 award of $1,000

Mac-FACS-FRAN Alumni Association Centennial Scholarship [10162]
Established to celebrate Canada’s Centennial and awarded to a student who has shown leadership in community-based volunteer activities. Volunteer activities undertaken as part of a course requirement is excluded from consideration for this award. Apply by May 15 with a summary letter outlining volunteer experience and two reference contacts to the Department of Marketing and Consumer Studies. The recipient will be chosen based on the equal weighting of high academic achievement and leadership in community-based volunteer activities.

Donor(s): Mac-FACS-FRAN Alumni Association
Qualification(s): Full-time students registered in the BComm. program in a major offered by the Department of Marketing and Consumer Studies who have completed between 10.25 and 15.0 credits by the end of the winter semester in the year of application with a minimum cumulative average of 80%.
Amount: 1 award of $1,000

Mandarin Restaurants Scholarship [10609]
This scholarship will be awarded to a student that demonstrates a continued interest in the food service industry. The recipient will be selected based on academic performance and the statement of interest. Apply to the HTM Awards Committee by January 31 using the standard HTM Awards Application Form and include a statement of up to 500-words explaining your interest in the food service industry.

Donor(s): Mandarin Restaurant Franchise Corporation
Qualification(s): Students in a major of the B.Comm. program offered by the School of Hospitality and Tourism Management who have completed at least 11.0 credits but no more than 14.5 credits with a minimum 75% in the last two full-time equivalent semesters.
Amount: 1 award of $1,000
Marion McKenzie Scholarships for Outstanding Achievement in History [I0470]

These prizes have been established in memory of Marion McKenzie (1905-1994), a teacher who had a love of learning and a continuing curiosity about the world both past and present. These are awarded to the top student in each of the required core courses in the History program (HIST*1010, HIST*2400, HIST*2602). Application is not required.

Donor(s): TBA
Qualification(s): The recipient for HIST*1010 must have completed no more than 5.0 credits; the recipient for HIST*2400, no more than 10.0 credits and be in the History program; and the recipient for HIST*2602, no more than 10.0 credits.
Amount: 3 awards of $400

Marketing Management Academic Achievement Scholarship (Undergrad) [I0694]

This scholarship will be awarded to the student with the highest cumulative average. No application required.

Donor(s): The Department of Marketing & Consumer Studies
Qualification(s): Students registered in B.Comm. Marketing Management who have completed at least 9.0 credits and have a minimum 80% cumulative average.
Amount: 1 award of $1,000

MCS Outstanding Undergraduate Marketing Major Scholarship [I0692]

The recipient will be selected based on academic achievement, demonstrated leadership and participation in extracurricular activities. Applicants must submit a resume detailing all extracurricular activities and leadership roles to the Department of Marketing and Consumer Studies by May 15.

Donor(s): The Department of Marketing and Consumer Studies
Qualification(s): Students registered in B.Comm. Marketing Management who have completed at least 9.0 credits with a minimum 80% cumulative average and participation in extracurricular activity.
Amount: 1 award of $2,000

MCS Outstanding Undergraduate Real Estate and Housing Scholarship [I0693]

The recipient will be selected based on academic achievement, demonstrated leadership and participation in extracurricular activities. Applicants must submit a resume detailing all extracurricular activities and leadership roles to the Department of Marketing and Consumer Studies by May 15.

Donor(s): The Department of Marketing and Consumer Studies
Qualification(s): Students registered in B.Comm. Real Estate and Housing or Housing and Real Estate Management major who have completed at least 9.0 credits with a minimum 80% cumulative average and participation in extracurricular activity.
Amount: 1 award of $2,000

Men's Basketball Scholarships [I0638]

Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Anonymous (Alumnus)
Qualification(s): In-course student-athlete who is a current member of the Men's Basketball varsity team and has achieved a minimum 70% average in the previous academic year.
Amount: 4 awards of $2,500

Men's Soccer Alumni Scholarship [I0771]

Made possible by the generous contributions of Men's Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Paul Wombwell (on behalf of the Men's Soccer Alumni Committee)
Qualification(s): Current member of the Gryphon Men's Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: several awards ranging in value from $1,000 to $3,500

Nathan Max Goldman Choir Scholarships [I0774]

Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and/or the Chamber Choir. One award will be available to a student in each choir, and will be given to the candidate who best combines high vocal achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required as a recommendation by Choir Director will be made to the SOFAM Awards Committee.

Donor(s): Mrs. Anne Goldman and the family of Nathan Max Goldman
Qualification(s): Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and/or the Chamber Choir and have been a member of the University of Guelph Choirs for at least two years.
Amount: 2 awards of $1,000

O.A.C. '45 Public Speaking Prize [C0200]

Offered by the Class of '45 O.A.C., on the occasion of their 40th anniversary. Application is not required.

Donor(s): Year '45 O.A.C.
Qualification(s): Graduating students in the B.Sc.(Agr.) or B.Comm.(Agricultural Business) programs who have demonstrated proficiency in public speaking and communication.
Amount: 1 award of $1,000

O.A.C. '55 Scholarships [I0664]

Provided by the class of O.A.C. '55. Recipients will have made an outstanding contribution to College life through academic proficiency and participation in extracurricular activities, and can be considered to have done the most for the College, for fellow students and in their personal development. Apply by May 15 to the OAC Dean's Office (Awards) with a letter outlining your participation in Class/College/University activities. Awarded in the fall semester.

Donor(s): O.A.C. '55
Qualification(s): Students registered in any O.A.C. degree program or students registered in the B.Eng. program that have completed a minimum of 10.0 with at least a 70% cumulative average.
Amount: 1 award of $2,000

O.A.C. Centennial Graduate Prizes [C0209]

The Ontario Agricultural College celebrated its 100th Anniversary in 1974. Many organizations and companies associated with the agricultural industry provided funds in conjunction with the Centennial activities. Funds have been established in perpetuity as a permanent commemoration of the Centennial of the College. Apply to OAC Awards Office by April 1 with a letter outlining extracurricular activities. Selection will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the student's university career.

Donor(s): Dean, O.A.C.
Qualification(s): Students graduating from a degree program administered by the Ontario Agricultural College and who plan to pursue graduate studies in any department or school of the Ontario Agricultural College in the year of baccalaureate graduation. The fellowship will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the student's university career.
Amount: 1 award of $2,200

O.A.C. Students’ Federation Medal [C0217]

Application is not required.

Donor(s): O.A.C.
Qualification(s): Graduating student in an undergraduate degree program in a major in an O.A.C. department who has been an outstanding leader in student activities at the College level throughout his or her University career.
Amount: 1 award of a Medal

Ontario Accommodation Association Scholarship [I0594]

The recipient will be selected based on academic performance and the statement of interest. Apply to the HTM Awards Committee by January 31 by using the standard HTM scholarship application form and include a statement of up to 500 words explaining your interest in the lodging industry.

Donor(s): Ontario Accommodation Association
Qualification(s): Students in a major of the B.Comm. degree program offered by the School of Hospitality and Tourism Management who have completed at least 11.0 credits but no more than 14.5 credits with a minimum 75% average in the last two full-time equivalent semesters.
Amount: 1 award of $500
Priscilla and Stanford Reid Trust Prize [10597]
Established in honour of the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written about the history of Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.
**Donor(s):** Priscilla and Stanford Reid Trust Fund
**Qualification(s):** Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.
**Amount:** 1 award of $500

Professional Staff Association Scholarship [10628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 by sending an email to awards@registrar.uoguelph.ca and include the name of the family member of the Professional/Managerial Group of the University, and/or retired Professional/Managerial Group of the University of Guelph. This award may be held more than once however, not in consecutive years. Preference will be given to students of current or retired P.S.A. members.
**Donor(s):** Professional Staff Association
**Qualification(s):** Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University, and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.
**Amount:** 1 award of $1,500

Shirley Louie Memorial Scholarship [10392]
Offered by the Canadian College and University Food Services Association (CCUFSA) to honour Shirley Louie, a long-time member. Apply by January 31 using the standard HTM scholarship application form and provide a maximum 500-word statement on your reasons for interest in the foodservice industry, a resume and any information you think that the HTM Awards Committee should take into consideration.
**Donor(s):** Canadian College and Universities Food Services Association
**Qualification(s):** Student in their final year of a major offered by the School of Hospitality and Tourism Management, with a minimum 70% average and an interest in the food service industry.
**Amount:** 1 award of $500

Skyline Scholarship [10690]
The recipient will be selected based on academic achievement, leadership and extracurricular activities and involvement with the Real Estate and Housing major and/or in the broader community. Apply to the M&CS Awards Committee by May 15 and include a list of extracurricular activities and involvement with the REH program and/or the broader community.
**Donor(s):** Skyline
**Qualification(s):** Students registered in the Real Estate and Housing major of the BComm program who have completed at least 5.0 credits but no more than 15.0 credits with a minimum 75% in the last two full-time equivalent semesters.
**Amount:** 1 award of $1,500

Smart Serve Ontario Scholarships [10550]
Established by Smart Serve Ontario, a non-profit organization dedicated to promoting the responsible service of alcohol. Application is not required.
**Donor(s):** Smart Serve Ontario
**Qualification(s):** Students in the B.BComm. program in a major offered by the School of Hospitality and Tourism Management who have completed between 6.0 and 8.0 course credits with the highest cumulative average and the Smart Serve certification program.
**Amount:** 2 awards of $675

Society of Management Accountants of Ontario Scholarship [C0268]
The scholarship will be awarded at summer convocation. Application is not required. One award of $500 and a free course enrolment in the first complete CMA subject enrolled in the Society’s program.
**Donor(s):** Society of Management Accountants, Grand River Chapter
**Qualification(s):** Full-time student graduating from B.Comm., B.A. (minor in Business Administration), or B.Sc. (minor in Business Administration), or B.Sc.(Agr.) (major in Agriculture Business or Food Agriculture and Resource Economics), programs. Student with the highest average in the 2 courses Financial Accounting ACCT*2220 and Intermediate Accounting ACCT*3330.
**Amount:** 1 award of $1,500 and a free course enrolment in the first complete CMA subject enrolled in the Society’s program

T.K. Warley Agrifood Policy Prize [10212]
Established by Prof. T.K. Warley, former Chair of the Department of Food Agriculture and Resource Economics and a faculty member of the Ontario Agricultural College from 1970 to 1991. Application is not required.
**Donor(s):** Professor T.K. Warley
**Qualification(s):** Student providing the best term paper written on a public policy issue relating to the agrifood system or rural society in courses such as AGEC*3030 Price and Production Analysis, AGEC*4000 Agricultural and Food Policy, and AGEC*4720 Special Study in Food Agriculture and Resource Economics.
**Amount:** 1 award of $500
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas H. Peters Scholarship</td>
<td>Friends and associates of Thomas H. Peters</td>
<td>Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP<em>2280, SOIL</em>3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.</td>
<td>1 award of $250</td>
</tr>
<tr>
<td>Tom Mooney Scholarship</td>
<td>Various Donors</td>
<td>Current member of the varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Toronto District Beekeeper’s Association Scholarship</td>
<td>Mr. &amp; Mrs. J. Van Stralen &amp; family and Mr. &amp; Mrs. Hans Van Der Hoeven</td>
<td>Graduating student who excels both academically and in extracurricular activities.</td>
<td>2 awards of $400</td>
</tr>
<tr>
<td>United Steelworkers Local 4120 Scholarship</td>
<td>United Steelworkers LU 4120</td>
<td>Students who have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>University of Guelph Alumni Legacy Scholarship</td>
<td>Various donors c/o University of Guelph Alumni Association Memorial Fund</td>
<td>Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with both a minimum cumulative average of 75% and demonstrated volunteer leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumna/us of the University of Guelph or its founding colleges.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Van Straalen and Van Der Hoeven Memorial Scholarship</td>
<td>Mr. &amp; Mrs. J. Van Straalen &amp; family</td>
<td>Students who have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.</td>
<td>2 awards of $400</td>
</tr>
<tr>
<td>W.C. Winegard Medal</td>
<td>The Board of Governors of the University of Guelph</td>
<td>Graduating student who excels both academically and in extracurricular activities.</td>
<td>1 award of a Gold medal</td>
</tr>
<tr>
<td>W.N. Vaughan Medal</td>
<td>Dr. Warren Jestin, a B.A. and M.A. economics graduate of the University of Guelph and a member of the University’s Board of Governors from 1997 to 2003, provides this award to a student registered in an honours degree in either the B.A program with a major in Economics or the B.Comm program with a major in Management Economics in Industry and Finance. The award winner will have achieved the highest cumulative average across all economics policy courses taken. Application is not required.</td>
<td>1 award of $600</td>
<td></td>
</tr>
<tr>
<td>Waterloo-Wellington CA Association Scholarship</td>
<td>Waterloo-Wellington Chartered Accountants Association</td>
<td>Students who have completed a minimum of two credits in the 3000 and 4000 level courses oriented towards economic policy, has achieved a minimum average of 80% in those courses, and has completed at least 15.0 credits towards their degree completion.</td>
<td>1 award of $100</td>
</tr>
<tr>
<td>Westmont Hospitality Group Scholarship</td>
<td>Westmont Hospitality Group</td>
<td>Students registered in the B.Comm. program in a major offered by the School of Hospitality and Tourism Management who have completed a minimum of 17.5 credits. Academic achievement and participation in extracurricular activities including leadership roles will also be considered.</td>
<td>1 award of $1,000</td>
</tr>
</tbody>
</table>
### IX. Scholarships and Other Awards, Bachelor of Commerce

#### William Furlong Scholarship in Microeconomics [10582]
The Department of Economics offers these scholarships in honour of Professor William Furlong, a long-term member of the Department of Economics and a leader in the scholarship of teaching principles of microeconomics, to the three students with the highest final grades in Introductory Microeconomics (ECON*1050) in the fall semester. Application is not required.

**Donor(s):** Colleagues & Friends of Dr. William Furlong  
**Qualification(s):** Full-time students enrolled in Introductory Microeconomics (ECON*1050)  
**Amount:** 3 awards of $200

#### William L. McEwen OAC '43 Men's Varsity Hockey Scholarships [10703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mrs. Irene McEwen  
**Qualification(s):** Current member of the Men's Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.  
**Amount:** Numerous awards ranging in value from $750 to $3,500

### In-course Scholarships with Financial Need

#### 3M Canada Scholarships [10564]
Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** 3M Canada Company  
**Qualification(s):** Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.  
**Amount:** Various award of up to $4,000

#### Agnes Yuen Leadership Scholarship [14401]
Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form along with a statement of up to 500 words outlining leadership and involvement in volunteer activities. Selection will be based on demonstrated exemplary leadership through involvement with on campus or off campus volunteer activities (student associations/charitable or non-profit organizations) as described in a statement. ACCESS AWARD

**Donor(s):** Mr. John and Mrs. Agnes Yuen with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students registered in a program offered by the College of Management and Economics who have completed between 5.0 and 17.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 1 award of $1,500

#### Barbara A. Bowen Scholarship [14390]
Established by Barbara A. Bowen, MAC '57. Preference will be given to students registered in Department of Family Relations and Nutrition. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** Barbara A. Bowen with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students who have a minimum 75% average and are registered in any degree program in the College of Social and Applied Human Science with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 1 award of $4,500

#### Bill Allen Scholarship [14544]
This scholarship is awarded in honour of Bill Allen, former Deputy Minister, Tourism and Recreation. The Ontario Tourism Industry with the assistance of the Ontario government's OTSS program established this scholarship for the student that demonstrates financial need, high academic achievement and evidence of strong leadership ability. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7 and include a resume and complete list of extracurricular activities. Students must list this award name on the N.A.F Awarded in the Winter semester. ACCESS AWARD.

**Donor(s):** Ontario Tourism Industry, friends and colleagues of Bill Allen  
**Qualification(s):** Students must be enrolled in a major offered by the School of Hospitality and Tourism Management, have completed 8.00 to 12.50 credits at the time of application and have at least a 75% average in the last two equivalent full-time semesters. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 1 award of $2,500

#### Brian Kenneth Howard Memorial Scholarship [14548]
Established by Kenneth and Irene Howard in memory of their son, Brian Kenneth Howard. Awarded to a student assessed as having financial need with a preference given to students from York, Durham or Simcoe counties. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Kenneth and Irene Howard with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Student registered in any degree program with a minimum 75% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 1 award of $2,700

#### Canada Bread Limited Scholarships [14509]
Provided annually by Canada Bread Limited with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. To be considered for this award you must list it on your N.A.F. The scholarships will be distributed based on financial need. ACCESS AWARD.

**Donor(s):** Canada Bread Limited with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students must have completed 13.00 to 17.50 credits in the B.Comm. program, in a major offered by the School of Hospitality and Tourism Management, at the time of application and have at least 75% average in the last two equivalent full-time semesters. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,000

#### Cara Operations Scholarships [14503]
Provided by Cara operations, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. To be considered for this award, you must list it on your N.A.F. ACCESS AWARD.

**Donor(s):** Cara operations Limited with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students registered in a major offered by the School of Hospitality and Tourism Management, who have completed at least 4.0 credits but no more than 17.5 credits at the time of application and have at least a 75% average in the last two full-time equivalent semesters. Preference will be given to students with no more than 7.5 credits. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,500, 2 awards of $1,000
City of Guelph 175th Anniversary Scholarship [I0515]

Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.

**Donor(s):** The Guelph Community Foundation  
**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 70.0% cumulative average, demonstrated volunteer leadership on campus and/or in the community and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian citizens or permanent residents at the time of application.

**Amount:** 1 award of $2,000

Delta Hotels Limited Scholarship [I4502]

Provided by Delta Hotels & Resorts Limited with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement that indicates the college transferred from to Student Financial Services, by October 7. To be considered for this award you must list it on your N.A.F. The scholarships will be awarded based on financial need. ACCESS AWARD

**Donor(s):** Delta Hotels Limited with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students must be enrolled in a major offered by the School of Hospitality and Tourism Management, have completed 8.00 to 12.50 credits at the time of application, and have at least a 70% average in the last two equivalent full-time semesters. Preference will be given to students who have transferred from a community college. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,000

Eleanor Morgan & Bill Archibald Scholarships [I4540]

The family of Eleanor and Bill Archibald, with the assistance of the Ontario government’s OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** The Family of Eleanor & Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).

**Amount:** 1 award of $1,000

Erin Demers Memorial Scholarship [I0406]

The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.

**Donor(s):** Family and friends of Erin Katrina Demers  
**Qualification(s):** Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.

**Amount:** 1 award of $1,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [I4546]

Established by Ernest Kendall, O.A.C. BSA 1932, with the assistance of the Ontario government's OTSS program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award you must list it on your N.A.F. Selection will be made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD

**Donor(s):** Ernest Kendall with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students with demonstrated financial need who are members of the women's varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

Euclid-Hitachi Scholarships [I4517]

Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government’s OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

Four Seasons Hotels and Resorts ACCESS Scholarship [I4533]

Established with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.), one letter of reference from a previous or current employer in the hotel, food and tourism industry and a covering letter from the applicant that includes a statement of interest in the industry to Student Financial Services, by October 7. ACCESS AWARD

**Donor(s):** Four Seasons Hotels and Resorts Ltd. with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students registered in the B.Comm. program, in a major offered by the School of Hospitality and Tourism Management, with a minimum of 5.00 credits, demonstrated financial need, a minimum 70% average in the last two equivalent full-time semesters and an interest in the industry. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $500

Graham Family Incentive Scholarship [I4506]

Provided by Harvey Graham (O.A.C. ’39) with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Harvey Graham O.A.C. ’39 with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $4,000

John Embry Family Scholarship [I4549]

Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Mr. John Embry with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Student-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $3,500
Journey's End Management Inc. Scholarships (ACCESS) [I4504]

Provided by Journey's End Corporation with the assistance of the Ontario government's OSOTF. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. The award will be distributed based on financial need. ACCESS AWARD

Donor(s): Journey's End Corporation with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students in the B.Comm. program, in a major offered by the School of Hospitality and Tourism Management, who have completed 13.0 to 17.5 credits at the time of application and have at least a 70% average in the last two equivalent full-term semesters. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,000

Landoni Athletic Scholarship [I4405]

Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Nora Spence Memorial Scholarship [I4394]

This scholarship was created by George and Jane Spence in memory of their daughter Nora Spence, O.A.C. BSc.'06 with the aid of the Ontario government’s OTSS program. Selection will be based on high academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): George and Jane Spence with matching funding through the Ontario Trust for Student Support program
Qualification(s): BSc students registered in a major offered by O.A.C. who have a minimum cumulative average of 75% and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

O.A.C. ’52 Scholarships [I4538]

Offered by the class of O.A.C.’52, with the assistance of the Ontario government’s OSOTF program. Apply by letter highlighting involvement in leadership and community activities and/or university life along with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): O.A.C. ’52 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. students enrolled in the B.Sc.(Agr.), B.Comm., B.Sc. or B.Sc.(Env.) programs who have demonstrated financial need, who are in good academic standing and who have demonstrated leadership. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: several awards of up to $4,000

R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [I0547]

Douglas (O.A.C. ’39) and Kathleen (MAC ’39) Kennedy met at a "hop" on campus in 1937 and later married. They established this scholarship to celebrate their time on campus and their 62 years of marriage. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy
Qualification(s): This scholarship will be awarded to a student in O.A.C. with high academic achievement and demonstrated financial need.
Amount: 1 award of $900

Residence Life Staff Scholarship [I0697]

Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.

Donor(s): Student Housing Services
Qualification(s): Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.
Amount: 2 awards of $300

Returning Student Residence Scholarship [I0696]

Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.

Donor(s): Student Housing Services
Qualification(s): Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.
Amount: 3 awards of $500

Robert, Louis and Helen Shaw Memorial Degree Scholarships [14520]

Established by the Shaw Scholarship Committee with the assistance of the Ontario government's OSOTF program. Apply with a letter, including a summary of local agricultural activities and a completed Financial Need Assessment Form (N.A.F.), to Student Financial Services by October 7. ACCESS AWARD

Donor(s): The Shaw Scholarship Committee with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in the BASc., B.Comm. in Agricultural Business, B.Sc.(Agr.) or D.V.M. programs studying agriculture, horticulture, equine studies, food and nutrition or veterinary sciences with demonstrated financial need, a 70% cumulative average and involvement in local agricultural activities. Preference will be given to first year students from Peterborough County. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: several awards of up to $2,500

Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [E4515]

Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS AWARD

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student athlete who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent, and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: several awards of up to $3,500
Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [I4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD
Donor(s): Sheryl and David Kerr
Qualification(s): Current member of the women’s varsity ice hockey team who is enrolled in an undergraduate program with a minimum 70% average or equivalent during the previous academic year as a student-athlete who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: various awards of up to $3,500

Westmont Hospitality Group ACCESS Scholarship [I4126]
Provided by Journey’s End Corporation with the assistance of the Ontario government’s OSOTF. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. To be considered for this award, you must list it on your N.A.F. The award will be distributed based on financial need. ACCESS AWARD
Donor(s): Journey’s End Corporation with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students in the B.Comm. program, in a major offered by the School of Hospitality and Tourism Management, who have completed 13.0 to 17.5 credits at the time of application and have at least a 70% average in the last two equivalent full-time semesters. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

W. F. Mitchell Athletic Scholarship [I4550]
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD
Donor(s): The Mitchell Family with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students who is a member of a varsity team who has achieved a minimum 70% average in the previous academic year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,350

Tara Lynn Giuliani Memorial Scholarship [I0375]
In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7.
Donor(s): The Giuliani Family
Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.
Amount: 1 varying amounts

William & Nona Heaslip Scholarship [I0589]
Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time (minimum 80% of a full course load) study. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
Donor(s): The William and Nona Heaslip Foundation
Qualification(s): Students that have completed 4.0 credits but no more than 6.0 credits in any degree program; are a Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financial need.
Amount: 2 awards of $15,000

In-course Bursaries
Bette Stephenson Accessibility Bursary [I3054]
In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student’s advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.
Donor(s): University of Guelph
Qualification(s): Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.
Amount: 3 awards to a maximum of $1,500

Birks Family Foundation Bursary [I3002]
Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
Donor(s): Birks Family Foundation
Qualification(s): Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures.
Amount: 1 award of $1,000
Brinson Partners Inc. Bursaries [I3526]
Brinson Partners Inc., with the assistance of the Ontario government's OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Burnbrae Farms Bursaries [I3525]
Established by Burnbrae Farms, with the assistance of the Ontario government's OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7. ACCESS AWARD.

Donor(s): Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Canadian Imperial Bank of Commerce Bursaries [I3511]
Established by the Canadian Imperial Bank of Commerce, with the assistance of the Ontario government's OSOTF program, to assist students to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Canadian Imperial Bank of Commerce with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time B.Com. students majoring in Management Economics in Industry and Finance, or Marketing Management. Students must be in semester 2 or beyond at the time of receiving the award. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,300

Class of '72: 25th Reunion Bursaries [I3512]
Established by the Class of '72: 25th Reunion Fund with the assistance of the Ontario government's OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Class of '72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $1,000

Class of O.A.C. ‘33 Bursaries [I3531]
Established by the class of O.A.C. ’33 on the occasion of their 65th Anniversary, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Class of 1933 (in honour of the late Prof. W.J. Squirrel) with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $500

Class of O.A.C. ’36 Bursaries [I3501]
Established by the Class of O.A.C. ’36 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Class of 1936 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): An O.A.C. degree student enrolled in any degree program who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $900

David R. Leach Memorial Bursary [I3534]
Provided in memory of David R. Leach by his family, with the assistance of the Ontario government's OSOTF program. David entered O.A.C. in 1969 as a member of O.A.C. ‘73 and graduated with a B.Sc. in Agriculture in 1974. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services and a letter from C.S.D. confirming physical disability by October 7. ACCESS AWARD.

Donor(s): Mrs Deborah Leach-Sartor with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate degree or diploma student who is physically disabled as determined by the Centre for students with Disabilities, has satisfactory academic standing and who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $750

Egg Farmers Ontario Bursaries [I3507]
Provided by the Ontario Egg Producers' Marketing Board and the O.A.C. Alumni Foundation with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. To be considered for this award you must indicate it on your N.A.F. and include a statement outlining your interest in the poultry industry. ACCESS AWARD.

Donor(s): Egg Farmers Ontario with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need who have completed semester 2 and are enrolled in the B.Sc. (Agr.) or B.Comm. (Agricultural Business) programs and who have a 60% minimum cumulative average. Preference will be given to students who have demonstrated an interest in the poultry industry. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 4 awards of $1,000

Elizabeth Burton Bursaries [I3503]
Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: Several awards of varying amounts
<table>
<thead>
<tr>
<th>George and Margaret J. Miles Memorial Bursary [I3544]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Established by the family to honour the memory of the parents, George and Margaret J. Miles, long supporters of education. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter describing involvement in extra-curricular activities to Student Financial Services by October 7. ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Established by the Miles Family with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> All undergraduate arts and social science students with demonstrated financial need who are in or beyond semester 3 and have at least a 75% cumulative average in all courses completed to date are eligible to apply. Preference will be given to students who participate and provide leadership in extra-curricular or community activities (examples include student government, charitable organization, volunteer work, Big Brothers/Sisters, contributions to school and/or community, etc.). Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td><strong>Amount:</strong> 2 awards of $1,500</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Gonder Family Bursary [I3543]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Established by the Gonder Family, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Preference will be given to a student who has held the award in the previous year. The award can be held a maximum of three times (years two to four of study). ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Dr. John Gonder and family with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Full-time B.Comm. students with 5 to 15 course credits, majoring in Management Economics in Industry and Finance or Marketing Management with at least a 70% cumulative average, and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,000</td>
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<thead>
<tr>
<th>Grand River Chapter (Society of Management Accountants of Ontario) Bursary [I3032]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donated by the Grand River Chapter of the Society of Management Accountants of Ontario. Preference will be given to students who attended a secondary school in the County of Perth, Waterloo or Wellington. Apply to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Society of Management Accountants of Ontario</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Full-time student in financial need and registered in the B.Comm. program.</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $500</td>
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<thead>
<tr>
<th>Gryphon Investment Council Bursaries [I3513]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td><strong>Amount:</strong> 2 awards of $1,500</td>
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<thead>
<tr>
<th>Guelph Compassionate Health and Dental Bursary [I3061]</th>
</tr>
</thead>
<tbody>
<tr>
<td>This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph's mandatory Student Health Plan, University of Guelph's Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Student Health and Dental Plan Reserve</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress.</td>
</tr>
<tr>
<td><strong>Amount:</strong> Several varies to a maximum $1,500</td>
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<thead>
<tr>
<th>Guelph Student Assistance ACCESS Bursaries [I3556]</th>
</tr>
</thead>
<tbody>
<tr>
<td>These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government’s OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
</tr>
<tr>
<td><strong>Amount:</strong> Several awards of varying amounts up to $1,000</td>
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<tr>
<th>Guelph Student Assistance Program [I3056]</th>
</tr>
</thead>
<tbody>
<tr>
<td>These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Undergraduate Students</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Full-time undergraduate students registered in any degree program with demonstrated financial need.</td>
</tr>
<tr>
<td><strong>Amount:</strong> Several awards of varying amounts up to $1,000</td>
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<thead>
<tr>
<th>Gwen Karr Memorial Bursary [I3010]</th>
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<tbody>
<tr>
<td>Mr. T.K.C. Karr, O.A.C. ‘32, has provided an endowment fund to assist students in a degree or diploma program of the Ontario Agricultural College. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Mr. T.K.C. Karr, O.A.C. ‘32</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> O.A.C. students with demonstrated financial need.</td>
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<tr>
<td><strong>Amount:</strong> Several varies</td>
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<tr>
<th>Helen Mahon Memorial Bursary [I3063]</th>
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<tbody>
<tr>
<td>Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Family and Friends of Helen Mahon</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Students registered in any program who come from a family where one parent is deceased.</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $500</td>
</tr>
<tr>
<td>Scholarship Name</td>
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<tr>
<td><strong>Howard and Myrtle Rogers Bursaries [I3537]</strong></td>
</tr>
<tr>
<td><strong>International Emergency Medical Aid Assistance [I3059]</strong></td>
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<tr>
<td><strong>International Student Bursaries [I3009]</strong></td>
</tr>
<tr>
<td><strong>Irvine and Grace Black Memorial Bursary [I3051]</strong></td>
</tr>
<tr>
<td><strong>Joan Weatherly Memorial Bursary [I3065]</strong></td>
</tr>
<tr>
<td><strong>Leroux Bursaries [I3535]</strong></td>
</tr>
<tr>
<td><strong>Marie Hardacre Bursary [I3548]</strong></td>
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<tr>
<td><strong>Mary I. Whitelock Bursaries [I3524]</strong></td>
</tr>
<tr>
<td><strong>Murray McEwen OAC Safe Water Bursary [I3573]</strong></td>
</tr>
<tr>
<td><strong>Murray P. And Florence L. Hannah Bursaries [I3571]</strong></td>
</tr>
</tbody>
</table>
O.A.C. ‘38 Lloyd Minshall Bursaries [13529]

Established by O.A.C. ‘38 Alumni, with the assistance of the Ontario government’s OSOTF program, to recognize the many contributions of Lloyd Minshall to his classmates and to O.A.C. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): O.A.C. ‘38 Alumni with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): O.A.C. undergraduate students with demonstrated financial need in semesters 5, 6, 7 or 8. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 4 awards of $1,800

O.A.C. ‘55 Access Bursaries [13517]

Provided by the class of O.A.C. ‘55 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): O.A.C. Class of ’55 with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students at any semester level in an O.A.C. degree program or students enrolled in the B.ENG. program with demonstrated financial need and a 60% minimum cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statement on Awards).

Amount: 6 awards of $500

O.A.C. ’57 Bursaries [13518]

Provided by the Class of O.A.C. ’57 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): O.A.C. ’57 and the O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): O.A.C. undergraduate degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 5 awards of $1,000

O.A.C. Alumni Foundation Access Bursaries [13533]

Provided by the O.A.C. Alumni Foundation, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 3 awards of $500

Ontario Agri Business Association Degree Bursaries [13502]

The Ontario Agri Business Association, with the aid of the Ontario government's OSOTF program, has made available four bursaries of $750. Apply by October 7 to Student Financial Services with a letter, of up to two pages in length, detailing your involvement and a completed Financial Need Assessment Form (N.A.F.). Students will be selected based on demonstrated financial need and on involvement in community/extracurricular activities. ACCESS AWARD

Donor(s): Ontario Agri Business Association with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students who have completed a minimum of 10.0 credits in the B.Sc.(Agr.) program in either an unspecialized major or in Food Agriculture and Resource Economics, Animal Science, Agronomy or in the B.Comm. program in Agricultural Business. Students must have a minimum cumulative average of 60%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 4 awards of $750

Ontario Cattlemen's Association Degree Bursary [13506]

Provided by the Ontario Cattlemen's Association and the O.A.C. Alumni Foundation with the assistance of the Ontario government's OSOTF program. Apply by letter with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): Ontario Cattlemen's Association with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students with demonstrated financial need who are enrolled in semester 5 or above in the B.Sc.(Agr.), B.Comm.(Agricultural Business), B.Sc.(Animal Biology) or B.Sc.(Food Science) program and have a 60% minimum cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 4 awards of $300

Ontario Co-operatives R.P. Forshaw Bursary [13013]

The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit union.

Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw

Qualification(s): Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.

Amount: 1 award of $400

Ontario Federation of Agriculture Bursaries [13520]

Provided by the Ontario Federation of Agriculture and the O.A.C. Alumni Foundation with the assistance of the Ontario government's OSOTF program. Apply with a letter indicating 4H and/or rural community involvement and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. To be considered for this award you must indicate it on our N.A.F and include a statement outlining your extracurricular activities. ACCESS AWARD

Donor(s): Ontario Federation of Agriculture with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): O.A.C. students with demonstrated financial need enrolled in the B.Sc.(Agr.), B.Comm., B.Sc. or B.Sc.(Env.) programs. Preference will be given to students from farm families who have participated in 4H and/or rural community activities. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 12 awards of $500

Ontario Grape Growers Bursary [13033]

Offered by the Ontario Grape Growers Action Committee. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): The Ontario Grape Growers Action Committee

Qualification(s): Students with good academic standing in semesters 3 to 6 of a degree program or semesters 3 to 4 of a diploma program administered by O.A.C., and demonstrated need of financial assistance.

Amount: Several of various amounts

Ontario Pork (Degree) Bursary [13049]

Provided by Ontario Pork Producers' Marketing Board. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement indicating interests in pork production to Student Financial Services by October 7.

Donor(s): Ontario Pork Producers' Marketing Board

Qualification(s): B.Sc.(Agr.) and B.Comm., Agricultural and Business major, students with demonstrated financial need who have completed semester 4 and who have satisfactory academic standing and an interest in pork production.

Amount: 1 award of $500

Robert Auger Humanitarian Bursary [13058]

This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.

Donor(s): Office of Registrarial Services

Qualification(s): Students registered in a degree program.

Amount: Several grocery vouchers or book vouchers
### Scotiabank Bursaries [I3532]
Established by Scotiabank, with the assistance of the Ontario government’s OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,500

### Shirley Endean Bursaries [I3570]
These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** Several awards of varying amounts

### T.K. Warley Bursaries [I3510]
Established by O.A.C. Alumni Association, with the assistance of the Ontario government's OSOTF program, to recognize Professor T.K. Warley’s significant contribution to the O.A.C. Alumni Foundation and to students through teaching and promotion/development of "Experience Agriculture". A degree student may receive this bursary twice. Apply by letter outlining extracurricular involvement and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** O.A.C. Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students with demonstrated financial need who are in semester 5 to 8 of any degree program within O.A.C. A minimum 65% is required, as is participation in student activities, governance, and/or college affairs. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,000

### University of Guelph Access Bursaries [I3522]
Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Alumni and Friend of the University of Guelph with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** Several awards of $500, Several awards of $2,000

### University of Guelph Alumni Association Access Bursaries [I3523]
Established by the University of Guelph Alumni Association, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,000

### University of Guelph Child Care Bursaries [I3053]
In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need.  
**Amount:** Several awards of up to $2,000

### University of Guelph International Bursary [I3048]
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

**Donor(s):** University of Guelph  
**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.  
**Amount:** Several varies

### University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Ontario students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.  
**Amount:** Several awards ranging in value from $100 to $4,000

### University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I3047]
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.  
**Amount:** Several awards to a maximum of $500

### University Police Bursaries [I3019]
The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** The University Police  
**Qualification(s):** Full-time undergraduate with demonstrated financial need.  
**Amount:** Several of various amounts

### University Student Assistance Program [I3057]
These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).  
**Amount:** Several awards of various amounts to a maximum of $1,000
## In-course Travel Grants

### A.E. Wardlaw Travel Grant [T0665]

Established by Mrs. Alta Ethelwyn Wardlaw (nee Chapman), a 1912 student at Macdonald Institute. Selection will be based on the cost of the travel and the benefit it will bring to the student's program of study. Preference will be given to the student attending a professional conference/meeting. Apply by May 15 to the CSAHS Awards Committee by completing the CSAHS Awards Application and attach a letter describing the travel, the benefit it will bring to your program and an overall travel budget. This award can only be held once.

**Donor(s):** Mrs. Alta Ethelwyn Wardlaw  
**Qualification(s):** Students registered in the College of Social and Applied Human Sciences who have completed up to 15.0 credits and who will be travelling for academic reasons, or to attend an appropriate professional conference/meeting  
**Amount:** 1 award of $1,000

### A.W. Archibald Memorial Travel Grant [T4541]

Mr. A.W. Archibald, O.A.C. '33 with the assistance of the Ontario government's OSOTF program, provide these travel grants to students who plan to travel for a semester abroad or to attend other schools outside of Canada for workshops or other academic related purposes. Apply to Student Financial Services with a letter outlining proposed travel plans and academic purpose accompanied by a letter from support from a faculty member or student advisor, and a Need-Based Travel grant application by October 7. ACCESS AWARD.

**Donor(s):** A.W. Archibald, O.A.C. '33 with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Undergraduate students in any O.A.C. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** Several awards up to $1000

### Aeroplan International Travel Grant [T0604]

Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a “Travel Grant Need-based Application”. Preference is subject to the availability of Aeroplan miles and may not be available every year.

**Donor(s):** Aeroplan  
**Qualification(s):** Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.  
**Amount:** 1 or more awards of a plane ticket

### Arthur D. Latornell Undergraduate Travel Grants [T0058]

An endowment fund established in memory of Arthur D. Latornell, O.A.C. '50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.

**Donor(s):** The Estate of Arthur D. Latornell  
**Qualification(s):** Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.  
**Amount:** several up to a maximum of $1000

### Canada's Outdoor Farm Show Travel Grants [T3536]

Established by Canada's Outdoor Farm Show and the O.A.C. Alumni Foundation, with the assistance of the Ontario government's OSOTF program. Apply to Student Financial Services with a completed Need-Based Travel Grant application by February 1. The letter should outline the reasons for participating in the meeting, competition, etc., and include a brief statement of learning objectives and appropriate involvement in student activities. Upon successful return from travel opportunity, student(s) should be willing to present report to classmates and/or faculty. ACCESS AWARD.

**Donor(s):** Canada's Outdoor Farm Show with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Undergraduate students in O.A.C. who have completed semester 4 in Agricultural Science or Agricultural Business or who have completed semester 2 of the Diploma in Agriculture program (Alfred, Guelph, Kemptville, Ridgetown).  
**Amount:** 1 award of $1,000

### Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]

The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government's OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.

**Donor(s):** Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Undergraduate degree students in either the second or third year of study. Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a “Letter of Permission” prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** A number of awards to a maximum of $7,500

### Class of OAC ’59 Experiential Learning Travel Grant [T0702]

The Class of OAC ’59, in recognition of their 50th anniversary since graduation, has established this award to assist students participating in meetings, conferences, seminars, tradeshows, course field trips, semesters abroad, etc. Selection will be based on relevance of intended travel and benefits to program of study. Apply by April 1st to the OAC Awards Office with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs and expected benefits. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be beneficial.

**Donor(s):** OAC ’59  
**Qualification(s):** Students registered in any undergraduate degree program of OAC who have completed a minimum 8.0 credits or students registered in the Diploma in Agriculture or Horticulture programs at Alfred, Kemptville or Ridgetown campuses or Turfgrass Diploma at the Guelph campus who have completed 6.0 credits are eligible. Students must have a 70% cumulative average and must have travel related to their studies to be considered.  
**Amount:** Several awards of up to $15,000

### D & G Hart Travel Grant [T0601]

Douglas H., O.A.C. 1922, and George M., O.A.C. 1927, were long time supporters of O.A.C. and believed greatly in the benefits that travel provided to an individual's personal and professional growth. Apply to the O.A.C. Awards Office by May 15 with a letter of no more than two pages, outlining the intended study program/conference/or other type of travel opportunity, the reasons for choosing the travel program and the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. This award cannot be held with any other University of Guelph Travel Grant.

**Donor(s):** Family of Douglas and George Hart  
**Qualification(s):** Students currently enrolled in any O.A.C program with a minimum 70% cumulative average who intend to participate in travel related to course study.  
**Amount:** 1 award of up to awards of $750
IX. Scholarships and Other Awards, Bachelor of Commerce

Drs. Frederick Kozak and Lorna Hruby Travel Grant [T0784]

Established by the parents of a BAH graduate in 2008 and MA in 2011. Selection will be based on level of commitment to international development and plan for engagement. There are two distinct application deadlines - April 15 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, this award can be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the planned international activity including local engagement, and commitment to international development. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

**Donor(s):** Drs. Frederick Kozak and Lorna Hruby

**Qualification(s):** Full time students registered in any major offered by CSAHS who have completed at least 10.0 credits with a minimum cumulative average of 70%, and who demonstrate the desire and aptitude to help build capacity and address social issues in international communities and are participating in any course-related international travel.

**Amount:** 1 award of $5,000

Elizabeth M. (Betty) Upton Memorial Travel Grant [T0366]

Established in memory of Elizabeth M. Upton, a faculty member in the School of Hospitality and Tourism Management, who played a key role in the development of the School and was instrumental in the development of the Institutional Foodservice Management major. Apply by letter, by May 15, to the HTM Awards Committee describing the travel, the expected benefit and including a budget and any expected sources of funding.

**Donor(s):** The faculty and alumni of HTM and family and friends of Elizabeth M. (Betty) Upton

**Qualification(s):** Student who demonstrates the greatest financial need for travel to a recognized University of Guelph study abroad, exchange or letter of permission activity outside Canada, or to attend a relevant professional conference, or to collect research data for a thesis or major paper. Students must have completed two or more semesters in an undergraduate program offered by the School of Hospitality and Tourism Management, and must be in good academic standing. The project or conference must occur within 12 months.

**Amount:** 1 award of $500

H.C. Mason Travel Scholarships [T0598]

In memory of the late H.C. Mason, a travel fund, within the O.A.C. Teaching Trust, for O.A.C. students has been established by F.W. Bray of Hamilton. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the travel program. The submission of a letter of no more than two pages outlining the intended study program/conference/or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant is not tenable with any other University of Guelph travel grants.

**Donor(s):** Mr. F.W. Bray

**Qualification(s):** Student who are currently registered in an Ontario Agricultural College undergraduate program with a minimum of 70% cumulative average who intend to participate in travel related to course study

**Amount:** various awards up to $1,500

J. Ross Cavers Study Abroad Scholarship [T0051]

O.A.C. '53 provides these scholarships in memory of J. Ross Cavers, their honorary year member, professor emeritus, and respected poultry scientist. Apply by letter outlining the intended semester abroad program, the reasons for choosing the program and the perceived value of participation along with a brief summary of related and extracurricular activities to the O.A.C. Awards Office by May 15. A letter of recommendation will also be considered as part of the application package. Application should be made a maximum of two semesters prior to participation in the intended travel program.

**Donor(s):** Class of O.A.C. '53

**Qualification(s):** Undergraduate student in O.A.C. planning to participate in a semester abroad program with a minimum 75% cumulative average. Preference will be given to a candidate who has exhibited qualities of leadership

**Amount:** 2 awards of $2,000

J.D. Cunningham Travel Grant [T0605]

Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by May 15 to the O.A.C. Awards Office with a letter of no more than two pages outlining the intended study program, conference, or other type of learning opportunity. Include the reason for choosing the program and describe the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. Upon return from the travel opportunity, the student must be willing to present a report to classmates and/or faculty and/or the Ontario Food Protection Association.

**Donor(s):** Ontario Food Protection Association

**Qualification(s):** Students currently enrolled in any O.A.C. program with a minimum cumulative average of 75%. Preference will be given to students in Food Science specializing in Microbiology.

**Amount:** 1 award of $2,000

Jeff and Donna Lozon Travel Grant [T0772]

Selection will be based on budgetary considerations and academic standing. There are two distinct application deadlines - April 15 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, this award can be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

**Donor(s):** Jeff Lozon (CSS BA '76) and Donna Doherty Lozon

**Qualification(s):** Full-time students registered in any degree program in CSAHS who are participating in any course-related international travel.

**Amount:** 2 awards of $1,000

Joan Doherty Travel Scholarship [T0401]

Established in memory of the late Joan Doherty (a member of the class of FACS '78) to assist students to attend a conference related to their studies. The recipient will be selected based upon the cost of attending the conference and the benefit it will bring to the student's program of study. Apply to the Chair of the Department of Marketing & Consumer Studies Awards Committee by March 1 including a budget and a description of the travel.

**Donor(s):** Mr. Thomas B. Doherty

**Qualification(s):** Undergraduate or graduate student in Marketing & Consumer Studies with a minimum cumulative average of 70%.

**Amount:** 1 award of $400

Kenneth W. Knox Undergraduate Leadership Travel Grant [T4403]

Established to honour and recognize Kenneth Knox, Kemptville ’67, OAC ’72, for his passionate and innovative career. Selection will be based on relevance of intended travel and benefits to program of study, demonstrated leadership contributions and financial need. Apply by October 7 to Student Financial Services with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs, expected benefits, demonstrated leadership as evidenced by participation in extracurricular activities or volunteer services, along with a completed University of Guelph Financial Need Assessment Form. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be considered. ACCESS AWARD

**Donor(s):** Friends and Family of Kenneth Knox with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students registered in any program offered by OAC who have demonstrated leadership contributions, have completed a minimum of 10.0 credits with a minimum 70% cumulative average and plan to participate in an experiential learning opportunity related to their field of study, such as: semester abroad, exchange program, etc. and have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $2,000
### Kincardine Shippers Association Travel Grant [T0676]

Established by the members of the Kincardine Shippers Association to assist students in pursuit of their educational goals. Selection will be based on the stated travel benefits, leadership potential and financial need considered. Preference will be given to students from the Municipality of Kincardine and the Township of Huron-Kinloss. Apply with a letter of no more than two pages outlining the intended study program or type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation, along with a Need-Based Travel grant application by October 7 to Student Financial Services. A letter of recommendation will be considered as part of the application.

**Donor(s):** Kincardine Shippers Association  
**Qualification(s):** Students registered in any program offered by O.A.C. with a minimum 70% cumulative average who plan to participate in travel related course study.  
**Amount:** 1 award of $1,000

### Kiyoko Miyashishi International Travel Grant [T0742]

Established by Dr. Kiyoko Miyashishi, a retired faculty member from the Department of Geography, and Dr. Edward A Johnson. Selection will be based on budgetary considerations and academic standing. There are two distinct application deadlines - April 1 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, both awards could be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

**Donor(s):** Dr. Kiyoko Miyashishi and Dr. Edward A Johnson  
**Qualification(s):** Full-time students registered in any degree program in CSAHS with a minimum 70% cumulative average who are participating in any course-related international travel.  
**Amount:** 2 awards of $3,500

### Louise McConkey Travel Scholarship [T0431]

Established in memory of the late Louise McConkey, Mac '27 to defray travel costs related to the student's course of study. Selection will be made on the basis of the value of the travel to the students' studies. Apply to the Chair, Consumer Studies including a budget and a description of the travel and the benefit to be gained.

**Donor(s):** the estate of Louise McConkey  
**Qualification(s):** Students registered in a program offered by the Department of Marketing & Consumer Studies with a minimum 70% cumulative average in the last two full-time equivalent semesters.  
**Amount:** 1 or more grants of up to $1,400

### Massey Fund Travel Scholarships [T0417]

Travel scholarships available from the Massey Fund. Not tenable with other awards that support travel costs. Apply by letter outlining the study abroad/exchange program and travel costs to the O.A.C. Dean’s Office by May 15.

**Donor(s):** O.A.C. Awards Committee  
**Qualification(s):** O.A.C. undergraduate students who are participating in an approved study abroad or exchange program outside Canada. Academic standing in the last two full-time semesters or equivalent will be used to determine recipients.  
**Amount:** 6 awards of up to $2,000 each

### O.A.C. ’05 Excellence Travel Grant [T0606]

In honour of the O.A.C. Class of 1905 and with the support of the O.A.C. Class of 2005, Apply to the O.A.C. Awards Office by May 15 with the submission of a letter of no longer than two pages outlining the intended study program/conference/or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant in not tenable with other University of Guelph travel grants.

**Donor(s):** Class of OAC 1905 and the Class of OAC 2005  
**Qualification(s):** Student who are currently registered in an Ontario Agricultural College undergraduate degree program and wish to travel to expand their educational opportunities.  
**Amount:** 1 award of $300

### O.A.C. ’47 Travel Bursaries [T3505]

Provided by O.A.C.’47 on the occasion of its 50th anniversary and with the assistance of the Ontario government’s OSOTF program. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure by October 1, for Winter travel, February 1 for Spring travel or June 1 for Fall travel.  
**ACCESS AWARD**

**Donor(s):** O.A.C. ’47 with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** O.A.C. undergraduate students who have demonstrated financial need and who are participating in a study abroad program for academic credit at an approved institution. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** several awards of various amounts

### O.A.C. ’54 International Study Scholarship [T0586]

Established in memory of Beth Duncan to support students participating in an exchange program, study abroad semester, or a field trip course. Submit a letter (of not more than two pages) outlining the intended international study program, reasons for choosing the program and the anticipated benefits of participation. Letters should also include a brief summary of extracurricular and student related activities. Letters of reference will be considered. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the program.

**Donor(s):** Class of O.A.C. ’54  
**Qualification(s):** Currently registered students in O.A.C. who are Canadian citizens and who are participating in an exchange program, semester abroad, or field trip course.  
**Amount:** 2 awards of $1,450

### OURA Innovation Travel Grant [T4393]

Established in recognition of an innovative student fee protocol put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form and include one-page description of the intended travel.  
**ACCESS AWARD**

**Donor(s):** Ontario University Registrars’ Association (OURA) with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 1 award of $350

### Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]

The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government's OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Spring travel. Students may not receive this award more than two times during their undergraduate studies.  
**ACCESS AWARD**

**Donor(s):** The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** Several awards of varying amounts to a maximum of $1,000

### Robb Travel Grants [T3028]

These travel grants have been provided in recognition of her love of agriculture, by the estate of Martha Robb, Paris, Ontario. Apply to the Dean, O.A.C. by May 15.

**Donor(s):** The Estate of Martha Robb  
**Qualification(s):** O.A.C. students who are attending another university on a Letter of Permission.  
**Amount:** Several awards of various amounts
### Roderick Long International Travel Grant [T0360]
Offered in memory of the late Roderick Long, O.A.C. ’54. Up to eighty percent of the travel costs associated with the study outside of Canada program will be covered up to a maximum of $1,000 per student. Application by letter should be made to the Dean O.A.C. by May 15, and include a description of the study abroad program.

**Donor(s):** Mr. Roderick W. Long  
**Qualification(s):** O.A.C. undergraduate student who is studying outside of Canada on an approved program for one or more semesters  
**Amount:** Several awards of $1,000

### The Jean Rich Foundation Travel Grant [T0730]
Selection will be based on budget considerations, and participation in community development projects. There are two distinct application deadlines - April 1 for Summer/Fall and October 1 for Winter/Spring. If a qualified candidate is not selected from the April applicant pool, both awards could be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity, including involvement in community development projects, and the financial need. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

**Donor(s):** The Jean Rich Foundation  
**Qualification(s):** Full-time students registered in the College of Social and Applied Human Sciences who are participating in international travel activities in developing countries as part of a course of study.  
**Amount:** 2 awards of $2,500

### University of Guelph Travel Scholarships [T0421]
The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.

**Donor(s):** University of Guelph  
**Qualification(s):** Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.  
**Amount:** Several awards up to $1,500

### Varley and Lyon Exchange Scholarships [T0298]
Miss Bertha Manent of New York City has established five or more Mrs. Lillie-Jane Lyon Varley and Clarence D. Lyon Exchange scholarships. Apply to the O.A.C. Awards office by May 15 and include a letter from the Dean or Director approving the proposed program of study.

**Donor(s):** Miss Bertha Manent  
**Qualification(s):** O.A.C. students who are pursuing a course of study for one or two semesters at another college or faculty of agriculture in Canada or in another country. Such course of study must lead to the degree of B.Sc. (Agr.), B.Comm. in Agricultural Business or the Diploma in Agriculture at the University of Guelph.  
**Amount:** 3 awards of $750
**Bachelor of Computing**

Please refer to the General Statement on Awards for:
- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

### Entrance Scholarships

1961-1964 Redmen Football Scholarships [E0770]

Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipients will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Dr. Robert Keith (c/o 1961-1964 Football Committee)

**Qualification(s):** Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.

**Amount:** several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [E0769]

Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)

**Qualification(s):** Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,500

AI Singleton Hockey Scholarships [E0687]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** 1957-58 OA-VC Redmen Championship Hockey Team

**Qualification(s):** Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

**Amount:** Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [E0663]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Allen Keele

**Qualification(s):** Entering student-athlete who is a member of the Varsity track and field team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,350

Angelo and Frank Agro Undergraduate Scholarship [E0520]

These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership role(s) in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

**Donor(s):** The Frank Agro Estate

**Qualification(s):** Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4H projects.

**Amount:** 8 awards of $7,000 (payable over 4 years of study)

### Board of Governors’ Awards [E0317]

The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

**Donor(s):** Board of Governors

**Qualification(s):** Academically outstanding students entering semester 1 with the highest admission averages of the entering cohort.

**Amount:** 25 award of $8,000 (payable over 4 years of study)

### Bob & Joyce Brooks Football Scholarships [E0691]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Mrs. Joyce Brooks

**Qualification(s):** Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

**Amount:** Numerous awards ranging in value from $750 to $3,500

### Coach Rudy Florio Football Scholarship [E0737]

Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Mr. Rudy Florio

**Qualification(s):** Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $3,500

### December 6th Memorial Scholarship [E0005]

This scholarship, established by the Faculty Association, is awarded in memory of the fourteen women murdered in December 1989 at Ecole Polytechnique and is intended to attract women to a profession that is largely comprised of men. The recipient will be selected on the basis of academic performance. For continued eligibility beyond semester 1, the student must maintain a minimum of 70% cumulative average. Demonstrated financial need may also be considered. Application is not required.

**Donor(s):** University of Guelph Faculty Association

**Qualification(s):** Female student who is a Canadian Citizen or Permanent resident of Canada enrolled in the College of Physical and Engineering Science.

**Amount:** 1 award of $2,250 ($750 in each of semesters 1, 3 and 5).

### Dr. Jack Britney Scholarship [E0034]

Established in memory of Dr. Jack Britney, a graduate of ‘57A and O.A.C. ’60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to Graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.

**Donor(s):** Friends and Associates

**Qualification(s):** Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph.

**Amount:** 1 award of $1,000

### Dr. John Scott-Thomas Cross Country / Track and Field Scholarship [E0695]

Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

**Donor(s):** Various Donors

**Qualification(s):** Entering student-athlete who is a member of the Varsity Cross / Country or Track and Field Team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,350
<table>
<thead>
<tr>
<th>Scholarships and Other Awards, Bachelor of Computing</th>
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</thead>
<tbody>
<tr>
<td><strong>Earl B. MacNaughton Entrance Scholarships [E0172]</strong></td>
</tr>
<tr>
<td>Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Emphasis during selection will be given to academic achievement in high school science and mathematics. Application is not required.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Earl B. MacNaughton</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Students with high academic standing, entering an honours program in the College of Physical and Engineering Science.</td>
</tr>
<tr>
<td><strong>Amount:</strong> 4 awards of $1,000</td>
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</tbody>
</table>

| **Elaine Scott-Thomas Track and Field Scholarship [E0706]** |
| The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. Application is not necessary. |
| **Donor(s):** Dave Scott-Thomas CBS BSc '88 |
| **Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average. |
| **Amount:** 1 award of $1,500 |

| **Embry Family Scholarship [E0736]** |
| Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required. |
| **Donor(s):** Mr. John Embry |
| **Qualification(s):** Entering student-athlete who is a member of a varsity team and registered in an undergraduate program and who has achieved a minimum 80% admission average. |
| **Amount:** 1 award of $3,500 |

| **Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [E0627]** |
| Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required. |
| **Donor(s):** Ernest Kendall |
| **Qualification(s):** Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average. |
| **Amount:** 2 awards of $1,350 |

| **Football Endowment Fund (EEF) Scholarship [E0644]** |
| Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required. |
| **Donor(s):** Various University of Guelph donors |
| **Qualification(s):** Entering student-athlete who is a member of the Men's football team and who has achieved a minimum 80% admission average. |
| **Amount:** various awards of $750 to $3,500 |

| **George A. Gray O.A.C. '51 Varsity Scholarships [E0487]** |
| Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester. |
| **Donor(s):** Mrs. George A. Gray |
| **Qualification(s):** Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average. |
| **Amount:** 2 awards of $1,250 |

| **George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]** |
| Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required. |
| **Donor(s):** George Ames |
| **Qualification(s):** Entering student-athlete who is a member of the Varsity Cross Country team and who has achieved a minimum 80% admission average. |
| **Amount:** 1 award of $3,500 |

| **Gerd and Christel Baldauf Men's Basketball Scholarship [E0639]** |
| Established by Christian Baldauf, BSc, '95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required. |
| **Donor(s):** Dr. Christian Baldauf |
| **Qualification(s):** Student-athlete entering the BSc program who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average. |
| **Amount:** 1 award of $3,500 |

| **Gordon W. Innes Scholarship [E0140]** |
| Application is not required. |
| **Donor(s):** Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society. |
| **Qualification(s):** Student entering any degree program from Oxford County with the highest admission average. |
| **Amount:** 1 award of $1,400 |

| **Gryphon Athletic Scholarships [E0631]** |
| Students will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required. |
| **Donor(s):** Mrs. Marion Hardy |
| **Qualification(s):** Full-time international students (defined as paying the international student tuition and fees) entering any degree program. |
| **Amount:** 1 award of $3,000 |

| **Hardy International Student Scholarship [E0659]** |
| Selection is based on the assessment of the student's admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required. |
| **Donor(s):** Mrs. Marion Hardy |
| **Qualification(s):** Full-time international students entering an undergraduate degree program at the University of Guelph. Application is not required. |
| **Amount:** 1 award of $3,000 |

| **International Student Entrance Scholarships [E0408]** |
| In support of the University's strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is not required. |
| **Donor(s):** University of Guelph |
| **Qualification(s):** Students entering an undergraduate degree program at the University of Guelph with a record of high academic achievement and extracurricular involvement. |
| **Amount:** Several awards ranging in value from $500 - $6,000 |

| **J.D. MacLachlan Scholarship [E0170]** |
| Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required. |
| **Donor(s):** The J.D. MacLachlan Trust |
| **Qualification(s):** Students entering any degree program at the University of Guelph. |
| **Amount:** 1 award of $1,500 |

| **Jack and Lillian MacDonald Scholarship [E0379]** |
| Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University. |
| **Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald |
| **Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP). |
| **Amount:** 1 award of $900 |
Kelly Bertrand Cross Country Scholarship [E0684]  
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand  
**Qualification(s):** Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.

**Amount:** 1 award of $2,000

Larry Pearson Men’s Volleyball Athletic Scholarships [E0618]  
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson  
**Qualification(s):** Entering student-athlete who is a member of the men’s varsity volleyball team and who has achieved a minimum 80% admission average.

**Amount:** several awards up to $3,500

Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [E0732]  
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Maryam Latifpoor-Keparoutis  
**Qualification(s):** Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,200

Lincoln Alexander Scholarships [E0689]  
Established in 2001 in honour of Lincoln Alexander, Chancellor Emeritus of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This award cannot be held with the President’s Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

**Donor(s):** Many Donors  
**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and communities. In addition, students must be: Aboriginal; or a person with a disability; or a member of a racial minority.

**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

Lloyd Dorr Memorial Hockey Scholarship [E0708]  
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Family and Friends of the late Lloyd Dorr  
**Qualification(s):** Entering student-athlete who is a member of the men’s varsity hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,000

McArthur-Humphries Scholarship [E0183]  
An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county. These scholarships are awarded to students with the highest admission averages. Application is not required.

**Donor(s):** Wilhelmina McArthur-Humphries Trust Fund  
**Qualification(s):** Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.

**Amount:** 12 awards of $1,000

Men’s Basketball Scholarships [E0638]  
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Anonymous (Alumni)  
**Qualification(s):** Entering student-athlete who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.

**Amount:** 4 awards of $2,500

Men’s Soccer Alumni Scholarship [E0771]  
Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)  
**Qualification(s):** Entering student-athlete who is a member of the Gryphon men’s soccer team with a minimum 80% admission average.

**Amount:** several awards ranging in value from $1,000 to $3,500

Moulton-Hutchinson Family Track and Field Scholarship [E0705]  
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** The Moulton and Hutchinson Families  
**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $3,500

Pamela Wallin Chancellor’s Scholarships [E0688]  
Established in 2009 in honour of Pamela Wallin, Chancellor of the University of Guelph and considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have taken a leadership role in activities that demonstrate an interest in international relations and development and who indicate an ongoing desire to gain a broader subject knowledge through course work and/or engagement in the discipline and demonstrate the potential to become leaders in society.

**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

President’s & Chancellor’s Finalists Scholarship [E0651]  
Established in recognition of demonstrated academic excellence, leadership ability and participation in the President’s and Chancellor’s Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President’s or Chancellor’s Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.

**Donor(s):** Provost, and Vice-President Academic of the University of Guelph  
**Qualification(s):** Students entering any degree program who have been interviewed for consideration for a President’s or Chancellor’s Scholarship.

**Amount:** several awards of $500
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>President's Scholarship [E0238]</td>
<td></td>
<td>Established in 1987 in honour of their donors or distinguished members of the University and are considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the Lincoln Alexander Scholarships, the Pamela Wallin Chancellor's Scholarships or the Board of Governors' Scholarships. Donor(s): A number of President's Scholarships have been named in honour of the following people and/or donors: Cecil II. Franklin and Ingrid Franklin in honour of Cecil II. Franklin, former Chair of the Board of Governors and Honorary Fellow of the University, the University of Guelph has named one of these two prestigious entrance awards to recognize his financial contribution and volunteer support to the President's Entrance Scholarship program. Charles S. Humphrey in memory of Charles S. Humphrey, a former President of Hart Chemical Company Canada Ltd. and long-time friend, the University has named one of these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President's Entrance Scholarship program. Jack R. Longstaffe The University of Guelph has named one of these twelve prestigious entrance awards in memory of Jack R. Longstaffe to recognize his financial contribution through his estate to the President's Entrance Scholarship program. Burton C. Matthews The University of Guelph has named one of these twelve prestigious entrance awards in honour of Burton C. Matthews to recognize his insight and leadership in establishing the President's Entrance Scholarship program. Kathleen and Frederick Metcalf Mr. and Mrs. F.T. Metcalf of Guelph have endowed this award. After a distinguished career in cable TV, broadcasting and publishing, the late Mr. Metcalf retired as President of Maclean Hunter Ltd. and Chairman of the Board of Maclean Hunter Cable Ltd. He was Honorary Chairman of Maclean Hunter Cable Ltd. and a member of the University of Guelph Heritage Board (1996). Rol-land Farms Limited Two of the scholarships are endowed by the four shareholders of Rol-land Farms Limited of Blenheim, Ontario. Hank, Peter, Arthur and Eric Vander Pol and their families. The Vander Pol families are generous supporters of a number of University projects and programs. Lillian Stewart Usher The University of Guelph has named one of these twelve prestigious entrance awards in honour of Lillian Stewart Usher a friend of the University to recognize her financial contribution through her estate to the President's Entrance Scholarship program. Qualification(s): Students entering a degree program with a minimum 80% admission average who have made significant leadership contributions to their schools and/or communities. Amount: 8 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)</td>
</tr>
<tr>
<td>Professor Victor Matthews Track and Field Scholarships [E0707]</td>
<td></td>
<td>The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary. Donor(s): Various Donors Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average. Amount: up to 10 $3000 each</td>
</tr>
<tr>
<td>Rachel Cliff Scholarship [E0790]</td>
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<td>The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee. Donor(s): Mr. Ronald &amp; Nancy Cliff Qualification(s): Entering student-athlete who is a member of the Women's Middle Distance Team and a distance runner who has achieved a minimum 80% admission average. Amount: 1 award of $1,500</td>
</tr>
<tr>
<td>Sprung Family Men's Basketball Scholarship [E0672]</td>
<td></td>
<td>Established by Timothy Sprung, CSS BA '90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required. Donor(s): Mr. Timothy Sprung Qualification(s): Entering student-athlete who is a member of the Men's basketball team and who has achieved a minimum 80% admission average. Amount: 1 award of $3,500</td>
</tr>
<tr>
<td>Ted Morwick Scholarship [E0796]</td>
<td></td>
<td>Established by Alumnus Ted Morwick, BA '70. The student with the highest admission average will be selected. This award is conditional on maintaining a 80% average in the previous year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify, (i.e. The student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year.) If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opportunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary. Donor(s): Mr. Edward (Ted) Morwick Qualification(s): Students entering any degree program in the College of Arts. Amount: 1 award of $8,000 (payable over four years.)</td>
</tr>
<tr>
<td>Tom Mooney Scholarship [E0709]</td>
<td></td>
<td>The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary. Donor(s): Various Donors Qualification(s): Entering student-athlete who is a member of the varsity men’s football team or men’s basketball team and registered in an undergraduate program and who has achieved a minimum 80% admission average. Amount: Numerous awards ranging in value from $1,000 to $3,500</td>
</tr>
<tr>
<td>University of Guelph Entrance Scholarships [E0291]</td>
<td></td>
<td>The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student's financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive this award. Application is not required. Donor(s): University of Guelph Qualification(s): All students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average. Amount: Several awards of $2,000, Several awards of $3,000</td>
</tr>
<tr>
<td>University of Guelph Faculty Association Scholarship [E0292]</td>
<td></td>
<td>Award is payable at $750 per annum in the student's 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required. Donor(s): University of Guelph Faculty Association Qualification(s): Students entering any undergraduate degree program at the University of Guelph from Wellington county. Amount: 1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)</td>
</tr>
<tr>
<td>W. Penri Morris Memorial Scholarship [E0430]</td>
<td></td>
<td>Established by the family in memory of Penri Morris, who was killed World War II action in 1944 at the age of 21. Penri grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required. Donor(s): Prof. Rosalina Morris Qualification(s): Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario. Amount: 1 award of $1,000</td>
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</tbody>
</table>
Walter and Halina Slabikowski Scholarship [E0766]
This scholarship was established in memory of Walter and Halina Slabikowski who sent their first generation Canadian born children to university to enrich their lives and provide them with greater opportunities. The award will be given to the student with the highest admission average. The residence deposit must be received by published deadline date. Submit by email to awards@registrar.uoguelph.ca your full name, student ID number and a statement attesting to your parents’ place of birth and non participation in post secondary education by April 15th.
Donor(s): Irene Thompson and Slabikowski Family
Qualification(s): Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.
Amount: 1 award of $1,000

Waterloo-Wellington Science & Engineering Fair (WWSEF) Scholarship [E0619]
Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.
Donor(s): University of Guelph
Qualification(s): Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.
Amount: various awards of $1,000

William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships [E0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.
Donor(s): Mrs. Irene McEwen
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [E0634]
Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): Dr. William P. Weber
Qualification(s): Entering student-athlete who is a member of the Men's Football team and achieved a minimum 80% admission average.
Amount: 1 award of $2,500

Entrance Scholarships with Financial Need

Bill Klopp Memorial Scholarship [E0150]
Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).
Donor(s): Ross and Mary Lou Klopp
Qualification(s): Students from the cities of Kitchener or Waterlooo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.
Amount: 1 award of $500

Devine Family Scholarships [E4542]
On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government's OTSS program, established these two awards for the purpose of diversifying the ethnicity of the student body of the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out once every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the "Devine Family Scholarship Application". Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards.
ACCESS AWARD.
Donor(s): Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability, or who are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $30,000 (payable over 4 years of study)

Interhall Council Entrance Scholarship [E0636]
Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.
Donor(s): Interhall Council
Qualification(s): Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability.
Amount: 3 awards of $1,250

John Embry Family Scholarship [E4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate students to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.
ACCESS AWARD
Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $3,500
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<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Kenneth O. Hammill-Blount Canada Scholarship [E4356]</td>
<td>Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government’s OSOTF program. Selection will be based on greatest financial need from the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships applicants who were interviewed, but not successful in the competition.</td>
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<tr>
<td>Landoni Athletic Scholarship [E4405]</td>
<td>Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Students must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, soccer and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD</td>
<td></td>
</tr>
<tr>
<td>Norman L. Gibbins Microbiology Scholarship [E4392]</td>
<td>Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government’s OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD</td>
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<tr>
<td>P.A.J. Clarke Family Scholarship [E0381]</td>
<td>Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul’s father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.). This award is not tenable with the President’s Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.</td>
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<tr>
<td>Rol-Land Farms Scholarships [E4519]</td>
<td>Established by Rol-Land Farms, with the assistance of the Ontario government's OSOTF program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD</td>
<td></td>
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<tr>
<td>W. F. Mitchell Athletic Scholarship [E4550]</td>
<td>Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD</td>
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</tr>
<tr>
<td>Elizabeth Maud Hunter (Shier) Bursary [E3575]</td>
<td>This award was created to assist first year students in obtaining a post secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards. ACCESS AWARD</td>
<td></td>
</tr>
<tr>
<td>First Year Student Residence Bursary [E3666]</td>
<td>These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15.</td>
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</table>
Harvey Graham Bursary [E3030]
Provided by Harvey Graham (O.A.C. ’39). Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).
Deadline to submit the application is April 15.
Donor(s): Harvey Graham, O.A.C. ’39
Qualification(s): Student who has demonstrated financial need with preference given to a student who comes from a working farm. Students graduating from Lindsay C. V. I., Fenelon Falls Secondary School, or I. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student's home township.
Amount: 1 award of $1,200

International Student Entrance Bursaries [E3043]
In support of the University’s strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar’s Entrance Award Application to Student Financial Services.
Donor(s): University of Guelph
Qualification(s): Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.
Amount: Several ranging in value from $1,000 to $3,000

Registrar’s Entrance Bursaries [E3034]
Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Bursary, but can be held with all other entrance awards.
Donor(s): University of Guelph
Qualification(s): Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.
Amount: 500 awards of $2,000

Robert Arthur Stewart Bursaries [E3272]
Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.
Donor(s): The Estate of Mrs. H. Stewart
Qualification(s): Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.
Amount: 12 awards of $500

University of Guelph Accessibility Bursaries [E3038]
Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Bursary, but can be held with all other Entrance Awards.
Donor(s): University of Guelph
Qualification(s): Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.
Amount: 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

In-course Scholarships

1961-1964 Redmen Football Scholarships [I0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.
Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,200

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [I0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.
Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Men’s Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

Al Singleton Hockey Scholarships [I0687]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.
Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keefe Track and Field Scholarship [I0663]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): Allen Keefe
Qualification(s): In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $1,350
Bill Taylor Memorial Scholarship [I0280]
Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.

**Donor(s):** AMF Canada Ltd.
**Qualification(s):** Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or intercollegiate athletics.

**Amount:** 1 award of $900

Bob & Joyce Brooks Football Scholarships [I0691]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Mrs. Joyce Brooks
**Qualification(s):** Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

CFRU Volunteer Award [I0215]
Apply to the CFRU Board of Governors by April 30.

**Donor(s):** Station Manager, CFRU
**Qualification(s):** Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU.

**Amount:** 2 awards of $250

Class of 1970 Scholarship [I0424]
Established by the Silver Anniversary celebrants to commemorate the 25th anniversary of the University Class of 1970. This award rotates among all six colleges on the main campus. The appropriate College Award Committee selects the candidate each Fall semester and the candidate is announced each October. Application is not required.

**Donor(s):** Class 1970: 25th Reunion Gift
**Qualification(s):** Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’ Honours List.

**Amount:** 1 award of $900

Coach Rudy Florio Football Scholarship [I0737]
Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Mr. Rudy Florio
**Qualification(s):** Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $3,500

College of Physical Engineering Science Academic Scholarship [I0073]
Application is not required.

**Donor(s):** College of Physical and Engineering Science
**Qualification(s):** Offered in the Winter semester to students who have completed at least 15.0 course credits in a College of Physical and Engineering Science program and have excellent grades but have not received awards recently.

**Amount:** 2 awards of $250

College of Physical Engineering Science Graduation Prize [C0075]
The winner will be selected in May from all students who have completed the program in the previous twelve months. Application is not required. One award of $250 and a commemorative plaque.

**Donor(s):** College of Physical and Engineering Science
**Qualification(s):** Student graduating with the highest cumulative average from an honours B.Sc. program in a Physical and Engineering Science area.

**Amount:** 1 award of $250, 1 Commemorative plaque

College of Physical Engineering Science Academic Scholarship [I0076]
Awarded in the Fall semester to a student who has completed semester 6 in the previous Fall/Winter or Spring semester and who is enrolled in Year 4 of a College of Physical and Engineering Science program. Application is not required.

**Donor(s):** College of Physical and Engineering Science
**Qualification(s):** Recipients will be selected on the basis of a high average (minimum 80% average required) in courses normally taken in Year 3.

**Amount:** 1 award of $250

Collins Barrow Award [I0640]
Offered by Collins Barrow, a national firm of Chartered Accountants. Application is not required.

**Donor(s):** Collins Barrow Chartered Accountants
**Qualification(s):** Student with the highest grade in course ACCT*3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship will be given to the student with the highest cumulative average in their program.

**Amount:** 1 award of $500

David F. Boyes Apiculture Scholarship [I0031]
Established in memory of David Boyes, a technician in the Apiculture Field Laboratory. Application is not required.

**Donor(s):** The Apiculture Club
**Qualification(s):** Student registered in the Fall semester who achieves high academic standing in Introductory Apiculture (ENVB*2210) in the previous year, demonstrates an interest in apiculture and who has participated in extracurricular activities.

**Amount:** 1 award of $150

Deans’ Scholarships [I0323]
This award was established by the Board of Governors in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.

**Donor(s):** Board of Governors
**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.

**Amount:** 150 awards of $1,000

Dr. Charles Capstick Graduation Prize [C0558]
Awarded to the students who have achieved the highest and second highest cumulative averages at graduation. Application is not required.

**Donor(s):** School of Computer Science
**Qualification(s):** Students graduating from any program offered by the School of Computer Science in the June or the previous February or October Convocations.

**Amount:** 1 award of $500, 1 award of $300

Dr. James Linders Scholarship [I0559]
Awarded to the students with the highest average in year 3 core CIS courses in each of the two majors. Normally, one award will be made to a student in each major. If no qualified applicant is found in each major, both awards may be given within the same major. Application is not required.

**Donor(s):** School of Computer Science
**Qualification(s):** Students registered in the Bachelor of Computing degree program who have completed from 14.75 to 17.75 credits including the core CIS courses required for year 3 with a minimum 80% cumulative average.

**Amount:** 2 awards of $400

Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [I0695]
Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

**Donor(s):** Various Donors
**Qualification(s):** Current member of the Varsity Cross/Country or Track and Field Team, who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,350
Dr. Mary McLeish Scholarship [I0560]  
These scholarships are awarded to the student with the highest average in year 1 core courses in each of the two majors. Normally, one award will be made to a student in each major. If no qualified applicant is found in each major, both awards may be given within the same major. Application is not required.  
Donor(s): School of Computer Science  
Qualification(s): Students registered in the Bachelor of Computing program who have completed from 5.0 to 7.5 credits including the core CIS courses required for year 1 with a minimum 80% cumulative average.  
Amount: 2 awards of $400

Dr. Quasay H. Mahmoud Scholarship in Computer Science [I0791]  
The student with the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last full time academic semester will receive the award. Not tenable with the Dr. Ted Swart Scholarship. No application is necessary.  
Donor(s): Dr. Quasay H. Mahmoud  
Qualification(s): Students registered in the Computer Science major of the Bachelor of Computing program who have completed 9.75 to 12.75 credits including the core CIS courses required for year 2 with a minimum 80% cumulative average.  
Amount: 1 award of $1,000

Dr. Ted Swart Scholarship [I0561]  
These scholarships are awarded to the student with the highest average in Year 2 Computing and Information Science core courses in each of the two majors. Normally one award will be made to a student in each major. If no qualified applicant is found in each major, both awards may be given within the same major. Application is not required.  
Donor(s): School of Computer Science  
Qualification(s): Students registered in the Bachelor of Computing degree program who have completed from 9.75 to 12.75 credits including the core CIS courses required for year 2 with a minimum 80% cumulative average.  
Amount: 2 awards of $400

E.B. MacNaughton Convocation Prize [C0171]  
Established by the College of Physical and Engineering Science to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Application is not required. One award of a plaque-mounted medal and $250.  
Donor(s): The College of Physical and Engineering Science  
Qualification(s): The College of Physical and Engineering Science nominee for the Winegard Medal.  
Amount: 1 award of $250, 1 Plaque-mounted medal

Elaine Scott-Thomas Track and Field Scholarship [I0706]  
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.  
Donor(s): Dave Scott-Thomas CBS BSc '88  
Qualification(s): Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete  
Amount: 1 award of $1,500

Embry Family Scholarship [I0736]  
Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.  
Donor(s): Mr. John Embry  
Qualification(s): Current member of a varsity team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.  
Amount: 1 award of $3,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [I0627]  
Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.  
Donor(s): Ernest Kendall  
Qualification(s): In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.  
Amount: 2 awards of $1,350

Football Endowment Fund (FEF) Scholarship [I0644]  
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.  
Donor(s): Various University of Guelph donors  
Qualification(s): In-course student-athlete who is a current member of the Men's football team and has achieved a minimum 70% average in the previous academic year.  
Amount: various awards of $750 to $3,500

George A. Gray O.A.C. ’51 Varsity Scholarships [I0487]  
Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.  
Donor(s): Mrs. George A. Gray  
Qualification(s): In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.  
Amount: 2 awards of $1,250

George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [I0677]  
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.  
Donor(s): George Ames  
Qualification(s): In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year.  
Amount: 1 award of $3,500

Gerd and Christel Baldauf Men’s Basketball Scholarship [I0639]  
Established by Christian Baldauf, BSc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.  
Donor(s): Dr. Christian Baldauf  
Qualification(s): In-course student-athlete registered in the BSc. program who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.  
Amount: 1 award of $3,500

Governor General’s Medal [C0044]  
Established by the Office of the Governor General of Canada. Application is not required.  
Donor(s): The Chancellery  
Qualification(s): Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.  
Amount: 2 awards of a Silver medal each

Gryphon Athletic Scholarships [I0631]  
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.  
Donor(s): University of Guelph  
Qualification(s): In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.  
Amount: various awards of $750 to $3,500

International Undergraduate Scholarship [I0577]  
Established through a student referendum approved by the undergraduate student body. To recognize international students’ academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University and two academic and/or professional references. This award can only be held once by the student.  
Donor(s): International Student Organization (ISO)  
Qualification(s): Full-time International students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%.  
Amount: 2 awards of $2,000
Jack and Lillian MacDonald Scholarship [E0379]

Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald

**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).

**Amount:** 1 award of $900

John Eccles Scholarship [10093]

Apply to Student Financial Services, by May 15, with a letter highlighting leadership abilities through participation on residence life. Providing a reference letter would be an asset.

**Donor(s):** Student Housing Services

**Qualification(s):** Full-time student registered in semester 2, 3, 4, 5 or 6 and living in residence in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.

**Amount:** 1 award of $600

Kelly Bertrand Cross Country Scholarship [10684]

The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand

**Qualification(s):** Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $2,000

Kenneth W. Hammond Prize [10045]

The evaluation of the student will be based on the final essay in the "Environmental Perspectives and Human Choice: 5000 Days" course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

**Donor(s):** Kenneth W. Hammond

**Qualification(s):** Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.

**Amount:** 1 award of $1,000

Kevin Durie Memorial Scholarship [10653]

Established in memory of Kevin Durie, BA ’93, by his family and friends. Selection will be based on enthusiastic participation in residence life as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

**Donor(s):** Christine Blake-Durie

**Qualification(s):** Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.

**Amount:** 1 award of $1,000

Kip Hunter Prize [10139]

For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

**Donor(s):** Faculty, students and staff of the Philosophy Department

**Qualification(s):** Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.

**Amount:** 1 Book prize

Lambda Foundation Scholarship in LBGT Studies [10591]

This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a given student only once. Projects must have been completed or research proposals accepted within the past calendar year. Apply to the Dean of Arts by December 15th including the research proposal or completed project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.

**Donor(s):** Lambda Foundation and other donors

**Qualification(s):** Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.

**Amount:** 1 award of $1,000

Lange and Prokipcak Chemistry Scholarship [10528]

This scholarship was established by Professor Gordon L. Lange, Professor Joe M. Prokipcak, friends and colleagues. Professors Gordon L. Lange and Joe M. Prokipcak were valued members of the chemistry Faculty who retired in 2001. Their excellence in teaching was recognized within the university and nationwide, winning them a total of eleven teaching awards. This scholarship will be awarded to the student with the highest average grade in CHEM*1040, 1050 and 2700. Application is not required.

**Donor(s):** Professor Gordon L. Lange, Professor Joe M. Prokipcak and friends and colleagues

**Qualification(s):** Student registered in any program offered by C.P.E.S. who has completed CHEM*1040, CHEM*1050, CHEM*2700 and have completed a minimum of 10.0 credits up to a maximum of 14.75 credits.

**Amount:** 1 award of $1,000

Larry Pearson Men’s Volleyball Athletic Scholarships [10618]

Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson

**Qualification(s):** In-course student-athlete who is a current member of the men’s varsity volleyball team and has achieved a minimum 70% average in the previous academic year.

**Amount:** several awards up to $3,500

Latifpoor-Keparouit Stock Family Varsity Swim Team Scholarship [10732]

Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Maryam Latifpoor-Keparouit

**Qualification(s):** Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,200

Leonard Conolly Exchange Student Scholarship [10446]

Established by students, faculty, staff and friends to honour Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

**Donor(s):** Students, staff, faculty and friends of Dr. Leonard Connolly

**Qualification(s):** Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).

**Amount:** 1 award of $1,000
Lloyd Dorr Memorial Hockey Scholarship [I0708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Family and Friends of the late Lloyd Dorr
Qualification(s): Current member of the men’s varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,000

Marion McKenzie Scholarships for Outstanding Achievement in History [I0470]
These prizes have been established in memory of Marion McKenzie (1905-1994), a teacher who had a love of learning and a continuing curiosity about the world both past and present. These are awarded to the top student in each of the required core courses in the History program (HIST*1010, HIST*2450, HIST*2602 ). Application is not required.

Donor(s): TBA
Qualification(s): The recipient for HIST*1010 must have completed no more than 5.0 credits; the recipient for HIST*2450, no more than 10.0 credits and be in the history program; and the recipient for HIST*2602, no more than 10.0 credits.
Amount: 3 awards of $400

Men’s Basketball Scholarships [I0638]
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Anonymous (Alumnus)
Qualification(s): In-course student-athlete who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.
Amount: 4 awards of $2,500

Men’s Soccer Alumni Scholarship [I0771]
Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)
Qualification(s): Current member of the Gryphon Men’s Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: several awards ranging in value from $1,000 to $3,500

Nathan Max Goldman Choir Scholarships [I0774]
Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and / or the Chamber Choir. One award will be available to a student in each choir and will be given to the candidate who best combines high vocal achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required as a recommendation by Choir Director will be made to the SOFAM Awards Committee.

Donor(s): Mrs. Anne Goldman and the family of Nathan Max Goldman
Qualification(s): Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and / or the Chamber Choir and have been a member of the University of Guelph Choirs for at least two years.
Amount: 2 awards of $1,000

Priscilla and Stanford Reid Trust Prize [I0597]
Established in honour the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written about the history of Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.

Donor(s): Priscilla and Stanford Reid Trust Fund
Qualification(s): Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.
Amount: 1 award of $500
### Stephene Wilken Volunteer Scholarship [I0449]

Established by the Wilken family in memory of Stephene Wilken, BA 1995. Apply to Student Financial Services with letter indicating the kind and extent of volunteer activities at the Wellness Centre by October 1. Selection committee is the Senate Committee on Awards on the recommendation of the Student Wellness Educator at the Wellness Centre.

**Donor(s):** Bev and Darlene Wilken  
**Qualification(s):** Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre.

**Amount:** 1 award of $1,000

### Thomas H. Peters Scholarship [I0233]

Application is not required.

**Donor(s):** Friends and associates of Thomas H. Peters  
**Qualification(s):** Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.

**Amount:** 1 award of $250

### Tom Mooney Scholarship [I0709]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors  
**Qualification(s):** Current member of the varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $1,000 to $3,500

### Toronto District Beekeeper's Association Scholarship [I0285]

A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application is not required.

**Donor(s):** Mr. Jack Robinson  
**Qualification(s):** The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.

**Amount:** 1 award of $500

### United Steelworkers Local 4120 Scholarship [I0293]

Apply to Student Financial Services by January 31 and provide the name of the USWA member and relationship to the applicant. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class standing in his or her previous full-time semester.

**Donor(s):** United Steelworkers LU 4120  
**Qualification(s):** Student who is a member or former member, or who is from the immediate family of a member of United Steelworkers LU 4120, and who is entering semester 2, 3, or 4 of a degree or diploma program in the Winter semester with a minimum 70% cumulative average.

**Amount:** 1 award of $1,000

### University of Guelph Alumni Legacy Scholarship [I0735]

Funded through donations made to the University of Guelph Alumni Memorial Fund in memory of deceased alumni. The recipient will be selected based on academic achievement and volunteer contributions to the University community. Apply to Student Financial Services by May 15 with a cover letter indicating name, degree and year of graduation of alumna/alumnus relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.

**Donor(s):** Various donors c/o University of Guelph Alumni Association Memorial Fund  
**Qualification(s):** Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with both a minimum cumulative average of 75% and demonstrated volunteer leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumna/us of the University of Guelph or its founding colleges.

**Amount:** 1 award of $1,000

### Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]

Selection will be made on the basis of participation in university activities and in the student's home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

**Donor(s):** Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven  
**Qualification(s):** Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.

**Amount:** 2 awards of $400

### W.C. Winegard Medal [C0311]

The W.C. Winegard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** The Board of Governors of the University  
**Qualification(s):** Graduating student who excels both academically and in extracurricular activities.

**Amount:** 1 award of a Gold medal

### W.N. Vaughan Medal [C0299]

Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Selecting Committee. The medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** Mrs. Irene McEwen  
**Qualification(s):** Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

### William L. McEwen OAC '43 Men's Varsity Hockey Scholarships [I0703]

The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Various Donors  
**Qualification(s):** Current member of the varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

### William P. Weber Football Scholarship [I0634]

Established by Dr. William P. Weber, OVC ’59, football alumni and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Various Donors  
**Qualification(s):** In-course student-athlete who is a current member of the Men’s Football team and achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $2,500

### In-course Scholarships with Financial Need

#### 3M Canada Scholarships [I0564]

Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** 3M Canada Company  
**Qualification(s):** Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.

**Amount:** Various award of up to $4,000
Brian Kenneth Howard Memorial Scholarship [14548]
Established by Kenneth and Irene Howard in memory of their son, Brian Kenneth Howard. Awarded to a student assessed as having financial need with a preference given to students from York, Durham or Simcoe counties. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Kenneth and Irene Howard with matching funding through the Ontario Trust for Student Support program
Qualification(s): Student registered in any degree program with a minimum 75.0% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $2,700

C.P.E.S. Dean's Scholarship - ACCESS [14527]
Established with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. This award may be held once only. ACCESS AWARD

Donor(s): Established by a number of industrial, commercial and public sector corporations with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need registered in any major program in C.P.E.S. in, or beyond, second year. A minimum 80% cumulative average is required. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $800

City of Guelph 175th Anniversary Scholarship [10515]
Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.

Donor(s): The Guelph Community Foundation
Qualification(s): Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 70.0% cumulative average, demonstrated volunteer leadership on campus and/or in the community and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian citizens or permanent residents at the time of application.
Amount: 1 award of $2,000

Earl B. MacNaughton C.P.E.S. ACCESS Scholarships [14172]
Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical and Engineering Science, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Earl B. MacNaughton with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students currently registered in the final year of an honours program in the College of Physical and Engineering Science with high academic standing, demonstrated financial need, and who have completed a minimum of 15.0 credits. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,000

Eleanor Morgan & Bill Archibald Scholarships [14540]
The family of Eleanor and Bill Archibald, with the assistance of the Ontario government's OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD.

Donor(s): The Family of Eleanor & Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).
Amount: 1 award of $1,000

Erin Demers Memorial Scholarship [10406]
The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.

Donor(s): Family and friends of Erin Katrina Demers
Qualification(s): Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.
Amount: 1 award of $1,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [14546]
Established by Ernest Kendall, O.A.C. BSA 1932, with the assistance of the Ontario government's OTSS program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award you must list it on your N.A.F. Selection will be made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD

Donor(s): Ernest Kendall with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students with demonstrated financial need who are members of the women's varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,350

Euclid-Hitachi Scholarships [14517]
Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Graham Family Incentive Scholarship [14506]
Provided by Harvey Graham O.A.C. ’39 with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): Harvey Graham O.A.C. ’39 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $4,000
Jay Majithia Scholarship [I4518]
Provided to honour Professor Jay Majithia, in recognition of his support and leadership while a faculty member in the Department of Computing and Information Science, by Margaret Middleton, C.P.E.S. ’86 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7 and attach a letter stating research interest and/or involvement. ACCESS AWARD.

Donor(s): Mrs. Margaret L. Middleton with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Computer and Information Science students with demonstrated financial need who have a minimum cumulative program average of 70%. Preference will be given to eligible students who are applying for, or participating in, departmental research, including a special project or an independent study option. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $500

John Embry Family Scholarship [I4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program

Qualification(s): Student-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 2 awards of $3,500

Landoni Athletic Scholarship [I4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lace and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program

Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,000

Residence Life Staff Scholarship [I0697]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.

Donor(s): Student Housing Services

Qualification(s): Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.

Amount: 2 awards of $500

Returning Student Residence Scholarship [I0696]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is award is conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award , or one full semester to receive $250 of the award.

Donor(s): Student Housing Services

Qualification(s): Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.

Amount: 3 awards of $500

Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [E4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS AWARD.

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program

Qualification(s): Entering student athlete who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent, and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: various awards of up to $3,500

Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [I4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program

Qualification(s): Current member of the women’s varsity ice hockey team who is enrolled in an undergraduate program with a minimum 70% average or equivalent during the previous academic year as a student-athlete who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: various awards of up to $3,500

Tara Lynn Giuliani Memorial Scholarship [I0375]
In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7.

Donor(s): The Giuliani Family

Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.

Amount: 1 varying amounts

Tony and Anne Arrell Scholarships [I0686]
Tony Arrell, OAC Bsc (Agr) ’67 and Anne Arrell, MAC BHSC ’68 have established 20 in-course awards for students with financial need. Awards will be distributed so that all community colleges are represented. Apply by October 7 with a completed Financial Need Assessment Form to Student Financial Services. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Tony and Anne Arrell, Burgundy Asset Management

Qualification(s): Students registered in any degree program who have completed a minimum of 2.0 credits with a minimum 80% cumulative average and demonstrated financial need.

Amount: 20 awards of $5,000
### University of Guelph Retiree Association Degree Scholarship [I0569]

The University of Guelph Retiree Association established this $1,500 scholarship in 2007 to acknowledge in-course student achievement. The student having the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last two semesters of full-time studies will be chosen. Apply by May 15th to Student Financial Services with a letter indicating name of and relationship to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.

**Donor(s):** University of Guelph Retirees Association (U.G.R.A.)

**Qualification(s):** Students with a minimum 75% cumulative average registered in a degree program who are related to a retiree of the University of Guelph as child, grandchild or great grandchild.

**Amount:** 1 award of $1,500

### W. F. Mitchell Athletic Scholarship [I4550]

Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** The Mitchell Family with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students who is a member of a varsity team who has achieved a minimum 70% average in the previous academic year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

### William & Nona Heaslip Scholarship [I0589]

Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time (minimum 80% of a full course load) study. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** The William and Nona Heaslip Foundation

**Qualification(s):** Students that have completed 4.0 credits but no more than 6.0 credits in any degree program; are a Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financial need.

**Amount:** 2 awards of $15,000

### Bette Stephenson Accessibility Bursary [I3054]

In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student's advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

**Donor(s):** University of Guelph

**Qualification(s):** Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.

**Amount:** 3 awards to a maximum of $1,500

### Birks Family Foundation Bursary [I3002]

Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Birks Family Foundation

**Qualification(s):** Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures.

**Amount:** 1 award of $1,000

### Brinson Partners Inc. Bursaries [I3526]

Brinson Partners Inc., with the assistance of the Ontario government's OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

### Burnbrae Farms Bursaries [I3525]

Established by Burnbrae Farms, with the assistance of the Ontario government's OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7.

**Donor(s):** Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

### Class of '72: 25th Reunion Bursaries [I3512]

Established by the Class of '72: 25th Reunion Fund with the assistance of the Ontario government’s OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** Class of '72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 3 awards of $1,000

### Elizabeth Burton Bursaries [I3503]

Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards of varying amounts

### Gryphon Investment Council Bursaries [I3513]

Established by Gryphon Investment Counsel, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500
Guelph Compassionate Health and Dental Bursary [I3061]
This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Students must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.
Donor(s): Student Health and Dental Plan Reserve
Qualification(s): Students currently enrolled at University of Guelph and/or the University of Guelph’s mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the University of Guelph’s mandatory Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact the student’s academic progress.
Amount: Several varies to a maximum $1,500

Guelph Student Assistance ACCESS Bursaries [I3556]
These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government’s OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
ACCESS AWARD.
Donor(s): Central Student Association
Qualification(s): Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: Several awards of varying amounts up to $1,000

Guelph Student Assistance Program [I3056]
These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.
Donor(s): Student’s University
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need.
Amount: Several awards of varying amounts up to $1,000

Helen Mahon Memorial Bursary [I3063]
Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.
Donor(s): Family and Friends of Helen Mahon
Qualification(s): Students registered in any program who come from a family where one parent is deceased.
Amount: 1 award of $500

Howard and Myrtle Rogers Bursaries [I3537]
Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
ACCESS AWARD
Donor(s): The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 10 up to $2,000

International Emergency Medical Aid Assistance [I3059]
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial hardships due to a medical issue not covered by UISHP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.
Donor(s): University of Guelph
Qualification(s): Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.
Amount: Several awards of varying amounts

International Student Bursaries [I3009]
Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment Form for International Students.
Donor(s): Mrs. Norma L. Valeriote
Qualification(s): Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.
Amount: Several of varying amounts

Irvine and Grace Black Memorial Bursary [I3051]
Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women's Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women's Institute by October 7.
Donor(s): Family and Friends of Irvine and Grace Black
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women's Institute.
Amount: 1 award of $500

John & Margaret Van Loon Family Bursary in Science [I3549]
Established on behalf of the Van Loon Family in honour of parents John & Margaret Van Loon. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): Mr. Paul Van Loon and Mrs. Lauralene Van Loon
Qualification(s): Students registered in any program in the College of Biological Science or the College of Physical & Engineering Science who have completed a minimum of 2.5 credits. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,000
### Mary I. Whitelock Bursaries [I3524]
Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government’s OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 13 awards of $2,000

### Ontario Co-operatives R.P. Forshaw Bursary [I3013]
The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.

**Donor(s):** The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw  
**Qualification(s):** Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.  
**Amount:** 1 award of $400

### Robert Auger Humanitarian Bursary [I3058]
This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.

**Donor(s):** Office of Registrarial Services  
**Qualification(s):** Students registered in a degree program.  
**Amount:** Several grocery vouchers or book vouchers

### Ron Scriver Memorial Bursary [I3547]
Established in memory of Mr. Ron Scriver (1946 - 2005) C.P.E.S. B.A. ’76, to honour his outstanding 32-year career with the Ontario University’s Application Centre and his extensive involvement with colleagues throughout the University system. Preference will be given to students registered in the Bachelor of Computing Science Program. Apply with a Financial Need Assessment Form to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Family and Friends of Ron Scriver with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students registered in any program offered by C.P.E.S. with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 1 award of $1,500

### Scotiabank Bursaries [I3532]
Established by Scotiabank, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,500

### Shirley Endean Bursaries [I3570]
These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** Several awards of varying amounts

### University of Guelph Access Bursaries [I3522]
Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Alumni and Friend of the University of Guelph with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** Several awards of $500, Several awards of $2,000

### University of Guelph Alumni Association Access Bursaries [I3523]
Established by the University of Guelph Alumni Association, with the assistance of the Ontario government’s OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,000

### University of Guelph Child Care Bursaries [I3053]
In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need.  
**Amount:** Several awards of up to $2,000

### University of Guelph International Bursary [I3048]
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

**Donor(s):** University of Guelph  
**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.  
**Amount:** Several varies

### University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Ontario students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.  
**Amount:** Several awards ranging in value from $100 to $4,000

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Last Revision: Oct. 19, 2012
### University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [T3047]

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.  
**Amount:** Several awards to a maximum of $500

### University Police Bursaries [T3019]

The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** The University Police  
**Qualification(s):** Full-time undergraduate with demonstrated financial need.  
**Amount:** Several of various amounts

### University Student Assistance Program [I3057]

These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs, such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).  
**Amount:** Several awards of various amounts to a maximum of $1,000

### In-course Travel Grants

#### Aeroplan International Travel Grant [T0604]

Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a "Travel Grant Need-based Application". Preference will be given to students participating in the semester abroad or academic exchanges. Award is subject to the availability of Aeroplan miles and may not be available every year.

**Donor(s):** Aeroplan  
**Qualification(s):** Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.  
**Amount:** 1 or more awards of a plane ticket

#### Arthur D. Latornell Undergraduate Travel Grants [T0058]

An endowment fund established in memory of Arthur D. Latornell, O.A.C. ’50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.

**Donor(s):** The Estate of Arthur D. Latornell  
**Qualification(s):** Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.  
**Amount:** several up to a maximum of $1000

#### Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]

The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government’s OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.

**Donor(s):** Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Undergraduate degree students in either the second or third year of study. Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a “Letter of Permission” prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** A number of awards to a maximum of $7,500

#### OURA Innovation Travel Grant [T4393]

Established in recognition of an innovative student fee protocol put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form and include one-page description of the intended travel. ACCESS AWARD.

**Donor(s):** Ontario University Registrars’ Association (OURA) with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $350

#### Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]

The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government’s OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD.

**Donor(s):** The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards of varying amounts to a maximum of $1,000

#### University of Guelph Travel Scholarships [T0421]

The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.

**Donor(s):** University of Guelph  
**Qualification(s):** Students who have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.

**Amount:** Several awards up to $1,500
Bachelor of Engineering

Please refer to the General Statement on Awards for:

- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

Entrance Scholarships

1961-1964 Redmen Football Scholarships [E0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipients(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.
Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [E0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

AI Singleton Hockey Scholarships [E0687]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [E0663]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Allen Keele
Qualification(s): Entering student-athlete who is a member of the Varsity track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

Angelo and Frank Agro Undergraduate Scholarship [E0520]
These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership role(s) in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

Donor(s): The Frank Agro Estate
Qualification(s): Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4H projects.
Amount: 8 awards of $7,000 (payable over 4 years of study)

Association of Professional Engineers of Ontario Scholarship [E0016]
These scholarships are provided to one male and one female student entering the Bachelor of Science in Engineering program in recognition of their academic excellence. Application is not required.

Donor(s): Professional Engineers of Ontario
Qualification(s): Students entering the B.ENG. with the highest admission average.
Amount: 2 awards of $1,250

Barry Lee Scholarship for Agricultural Excellence [E0797]
Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

Donor(s): The Regional Municipality of Halton
Qualification(s): Students entering any undergraduate program offered by OAC.
Amount: 1 award of $1,000

Board of Governors’ Scholarships [E0317]
The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

Donor(s): Board of Governors
Qualification(s): Academically outstanding entering semester 1 with the highest admission averages of the entering cohort.
Amount: 25 award of $8,000 (payable over 4 years of study)

Bob & Joyce Brooks Football Scholarships [E0691]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Mrs. Joyce Brooks
Qualification(s): Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Coach Rudy Florio Football Scholarship [E0737]
Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. Rudy Florio
Qualification(s): Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Danone Crystal Springs Water Resources Engineering Entrance Scholarships [E0814]
Established through the generosity of Danone Crystal Springs, a leading distributor of bottled water. Eligible students will be invited to submit an essay to the Chair of the School of Engineering Awards Committee by October 1.

Donor(s): Danone Crystal Springs
Qualification(s): Students entering the Water Resources Engineering program with the highest admission average who have completed a satisfactory three-page essay on a water resources protection topic of the applicants’ choice.
Amount: 2 awards of $2,000

December 6th Memorial Scholarship [E0005]
This scholarship, established by the Faculty Association, is awarded in memory of the fourteen women murdered in December 1989 at Ecole Polytechnique and is intended to attract women to a profession that is largely comprised of men. The recipient will be selected on the basis of academic performance. For continued eligibility beyond semester 1, the student must maintain a minimum of 70% cumulative average. Demonstrated financial need may also be considered. Application is not required.

Donor(s): University of Guelph Faculty Association
Qualification(s): Female student who is a Canadian Citizen or Permanent resident of Canada enrolled in the College of Physical and Engineering Science.
Amount: 1 award of $2,250 ($750 in each of semesters 1, 3 and 5).
### Dr. Jack Britney Scholarship [E0034]

Established in memory of Dr. Jack Britney, a graduate of '57A and O.A.C.'60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.

**Qualification(s):** Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph.

**Amount:** 1 award of $1,000

### Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]

Established by Ernie Kendall, a former varsity athlete, in honour of his parents. Recipients will be selected based on demonstrated athletic and leadership qualities. Application is not required.

**Qualification(s):** Entering varsity Men's Basketball player who has achieved a minimum 80% admission average.

**Amount:** 1 award of $3,500

### Football Endowment Fund (FEF) Scholarship [E0644]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Qualification(s):** Various University of Guelph donors

**Amount:** various awards of $750 to $3,500

### George A. Gray O.A.C. '51 Varsity Scholarships [E0487]

Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

**Qualification(s):** Entering varsity Men's Football player who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,350

### Hardy International Student Scholarship [E0659]

Selection is based on the assessment of the student's admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required.

**Qualification(s):** Full-time international students (defined as paying the international student tuition and fees) entering any degree program.

**Amount:** 1 award of $3,000

### Gryphon Athletic Scholarships [E0631]

Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Emphasis during selection will be given to academic achievement in high school science and mathematics. Application is not required.

**Qualification(s):** Students with high academic standing, entering an honours program in the College of Physical and Engineering Science.

**Amount:** 4 awards of $1,000

### Gryphon Athletic Scholarships [E0695]

Established by Ernie Kendall, a former varsity athlete, in honour of his parents. Recipients will be selected based on demonstrated athletic and leadership qualities. Application is not required.

**Qualification(s):** Entering varsity Men's Basketball player who has achieved a minimum 80% admission average.

**Amount:** 1 award of $3,500

### Gordon W. Innes Scholarship [E0140]

Application is not required.

**Qualification(s):** Student entering the BSc program who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $3,500

### George A. Gray O.A.C. '51 Varsity Scholarships [E0487]

Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

**Qualification(s):** Entering varsity Men's Football player who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,350

### George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]

Established by Christian Baldauf, BSc. '95, in honour of his parents. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Qualification(s):** Entering varsity Cross Country player who has achieved a minimum 80% admission average.

**Amount:** 1 award of $3,500

### Gerd and Christel Baldauf Men's Basketball Scholarship [E0639]

Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Emphasis during selection will be given to academic achievement in high school science and mathematics. Application is not required.

**Qualification(s):** Students with high academic standing, entering an honours program in the College of Physical and Engineering Science.

**Amount:** 4 awards of $1,000

### Gryphon Athletic Scholarships [E0631]

Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Emphasis during selection will be given to academic achievement in high school science and mathematics. Application is not required.

**Qualification(s):** Students with high academic standing, entering an honours program in the College of Physical and Engineering Science.

**Amount:** 4 awards of $1,000

### Dr. Christian Baldauf Scholarship [E0172]

Established in memory of Dr. Jack Britney, a graduate of '57A and O.A.C. '60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.

**Qualification(s):** Entering varsity Men's Basketball player who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,000

### Ernie Kendall Science Entrance Scholarship [E0668]

Established by Ernie Kendall, a former varsity athlete, in honour of his parents. Recipients will be selected based on demonstrated athletic and leadership qualities. Application is not required.

**Qualification(s):** Entering varsity Men's Basketball player who has achieved a minimum 80% admission average.

**Amount:** 2 awards of $1,350

### Ernie Kendall Science Entrance Scholarship [E0668]

Established by Ernie Kendall, a former varsity athlete, in honour of his parents. Recipients will be selected based on demonstrated athletic and leadership qualities. Application is not required.

**Qualification(s):** Entering varsity Men's Basketball player who has achieved a minimum 80% admission average.

**Amount:** 2 awards of $1,350

### Friends and Associates

Entracing student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,000
**International Student Entrance Scholarships [E0408]**

In support of the University's strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applications must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is not required.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any degree program at the University of Guelph.  
**Qualification(s):** If insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county. These scholarships are awarded to students with the highest admission averages. Application is not required.

<table>
<thead>
<tr>
<th>Qualification(s):</th>
<th>Amount:</th>
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<tbody>
<tr>
<td>University of Guelph</td>
<td>several awards ranging in value from $500 - $6,000</td>
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<thead>
<tr>
<th>Qualification(s):</th>
<th>Amount:</th>
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<tbody>
<tr>
<td>Students entering a degree program at the University of Guelph.</td>
<td>1 award of $1,500</td>
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**J.D. MacLachlan Scholarship [E0170]**

Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.

**Donor(s):** The J.D. MacLachlan Trust  
**Qualification(s):** Students entering any degree program at the University of Guelph.  
**Qualification(s):** Students entering a degree program at the University of Guelph.  
**Amount:** 1 award of $1,500

<table>
<thead>
<tr>
<th>Qualification(s):</th>
<th>Amount:</th>
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<tbody>
<tr>
<td>Students entering any degree program at the University of Guelph.</td>
<td>1 award of $1,000</td>
</tr>
</tbody>
</table>

**Jack and Lillian MacDonald Scholarship [E00379]**

Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnic Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald  
**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).  
**Donor(s):** University of Guelph  
**Qualification(s):** University of Guelph  
**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).  
**Amount:** 1 award of $900

**Kelly Bertrand Cross Country Scholarship [E0684]**

The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand  
**Qualification(s):** Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.  
**Qualification(s):** Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.  
**Amount:** 1 award of $2,000

**Larry Pearson Men's Volleyball Athletic Scholarships [E0618]**

Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men's varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coach will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson  
**Qualification(s):** Entering student-athlete who is a member of the men's varsity volleyball team and who has achieved a minimum 80% admission average.  
**Qualification(s):** Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $1,200

**Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [E0732]**

Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Maryam Latifpoor-Keparoutis  
**Qualification(s):** Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.  
**Qualification(s):** Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $1,200

**Linamar Engineering Entrance Scholarships [E0783]**

Five scholarships will be awarded to entering students and five scholarships will be awarded to College transfer students. In lieu of insufficient qualified applicants in one category (i.e. high school vs. college transfers) the un-awarded scholarships may be applied to the other eligible pool of students for a total of ten scholarships to be awarded each year. The scholarships will be awarded to students with the highest admission averages. Preference will be to award a minimum of two scholarships to Linamar Employees, or to the spouse, children, or grandchildren of Linamar Employees. No application is required, unless an employee or a relative (as defined above) of a Linamar employee, in which case submit a letter must be submitted to Student Awards Manager in Student Financial Services by April 15th from Linamar Human Resources confirming the employment status or the relationship to the Linamar employee. This scholarship can only be held once.

**Donor(s):** Linamar Corporation  
**Qualification(s):** Students entering any major of the Bachelor of Engineering program or college students transferring into any major of the Bachelor of Engineering program.  
**Qualification(s):** Students entering a degree program with a minimum 90% admission average.  
**Amount:** 10 awards of $2,500

**Lincoln Alexander Scholarships [E0689]**

Established in 2001 in honour of Lincoln Alexander, Chancellor Emeritus of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This award cannot be held with the President's Scholarships, the Pamela Wallin Chancellor's Scholarships or the Board of Governors' Scholarships.

**Donor(s):** Many Donors  
**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and communities. In addition, students must be: Aboriginal; or a person with a disability; or a member of a racial minority.  
**Qualification(s):** Students entering a degree program with a minimum 80% admission average.  
**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

**Lloyd Dorr Memorial Hockey Scholarship [E0708]**

Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Family and Friends of the late Lloyd Dorr  
**Qualification(s):** Entering student-athlete who is a member of the men's varsity hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.  
**Qualification(s):** Entering student-athlete who is a member of the varsity hockey team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $1,000

**McArthur-Humphries Scholarship [E0183]**

An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county. These scholarships are awarded to students with the highest admission averages. Application is not required.

**Donor(s):** Wilhelmina McArthur-Humphries Trust Fund  
**Qualification(s):** Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.  
**Qualification(s):** Students entering any degree program with a minimum 70% admission average from Lanark and Wellington Counties.  
**Amount:** 12 awards of $1,000

**Men's Basketball Scholarships [E0638]**

Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Anonymous (Alumnus)  
**Qualification(s):** Entering student-athlete who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.  
**Qualification(s):** Entering student-athlete who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.  
**Amount:** 4 awards of $2,500
Men’s Soccer Alumni Scholarship [E0771]
Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)
**Qualification(s):** Entering student-athlete who is a member of the Gryphon men’s soccer team with a minimum 80% admission average.
**Amount:** several awards ranging in value from $1,000 to $3,500

Moulton-Hutchinson Family Track and Field Scholarship [E0705]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** The Moulton and Hutchinson Families
**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.
**Amount:** 1 award of $3,500

Pamela Wallin Chancellor’s Scholarships [E0688]
Established in 2009 in honour of Pamela Wallin, Chancellor of the University of Guelph, and considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.

**Donor(s):** University of Guelph
**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have taken a leadership role in activities that demonstrate an interest in international relations and development and who indicate an ongoing desire to gain a broader subject knowledge through course work and/or engagement in the discipline and demonstrate the potential to become leaders in society.

**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus $6,000 stipend for summer research assistantship)

Phyllis Mary Carpenter Scholarship [E0503]
Awarded to the student with the highest entering admission average. Application is not required.

**Donor(s):** The Carpenter Family Fund, administered by the Hamilton Community Foundation
**Qualification(s):** Full-time student entering the Environmental Engineering program from a publicly funded Ontario secondary school. Preference will be given to students from the Hamilton or Burlington area.

**Amount:** 1 award of $1,500

President’s & Chancellor’s Finalists Scholarship [E0651]
Established in recognition of demonstrated academic excellence, leadership ability and participation in the President’s and Chancellor’s Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President’s or Chancellor’s Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.

**Donor(s):** Provost, and Vice-President Academic of the University of Guelph
**Qualification(s):** Students entering any degree program who have been interviewed for consideration for a President’s or Chancellor’s Scholarship.

**Amount:** several awards of $500

President’s Scholarship [E0238]
Established in 1987 in honour of their donors or distinguished members of the University and are considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the Lincoln Alexander Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

**Donor(s):** A number of President’s Scholarships have been named in honour of the following people and/or donors:
- Cecil H. Franklin and Ingrid Franklin
- Charles S. Humphrey

**Qualification(s):**
- In honour of Cecil Franklin, former Chair of the Board of Governors and Honorary Fellow of the University, the University of Guelph has named one of these twelve prestigious entrance awards to recognize his financial contributions and volunteer support to the President's Entrance Scholarship program.
- In memory of Charles S. Humphrey, a former President of Hart Chemical Company Canada Ltd. and long-time friend, the University has named one of these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President’s Entrance Scholarship program.

**Amount:**
- 1 award of $3,500

Rachel Cliff Scholarship [E0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Ronald & Nancy Cliff
**Qualification(s):** Entering student-athlete who is a member of the Women’s Middle Distance Team and a distance runner who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,500
Sprung Family Men’s Basketball Scholarship [E0672]
Established by Timothy Sprung, CSS BA ‘90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. Timothy Sprung
Qualification(s): Entering student-athlete who is a member of the Men’s basketball team and has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Ted Morwick Scholarship [E0796]
Established by Alumnus Ted Morwick, BA ’70. The student with the highest admission average will be selected. This award is conditional on maintaining a 80% average in the previous year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify. (i.e. The student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year.) If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opportunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary.

Donor(s): Mr. Edward (Ted) Morwick
Qualification(s): Students entering any degree program in the College of Arts.
Amount: 1 award of $8,000 (payable over four years.)

Tom Mooney Scholarship [E0709]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the varsity men’s football team or men’s basketball team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $1,000 to $3,500

University of Guelph Entrance Scholarships [E0291]
The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student's financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive this award. Application is not required.

Donor(s): University of Guelph
Qualification(s): All students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average.
Amount: Several awards of $2,000, Several awards of $3,000

University of Guelph Faculty Association Scholarship [E0292]
Award is payable at $750 per annum in the student’s 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required.

Donor(s): University of Guelph Faculty Association
Qualification(s): Students entering any undergraduate degree program at the University of Guelph from Wellington county.
Amount: 1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)

W. Penri Morris Memorial Scholarship [E0430]
Established by the family in memory of Penri Morris, who was killed World War II action in 1944 at the age of 21. Penri grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required.

Donor(s): Prof. Rosalina Morris
Qualification(s): Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.
Amount: 1 award of $1,000

Walter and Halina Slabikowski Scholarship [E0766]
This scholarship was established in memory of Walter and Halina Slabikowski who sent their first generation Canadian born children to university to enrich their lives and provide them with greater opportunities. The award will be given to the student with the highest admission average. The residence deposit must be received by published deadline date. Submit by email to awards@registrar.uoguelph.ca your full name, student ID number and a statement attesting to your parents’ place of birth and non participation in post secondary education by April 15th.

Donor(s): Irene Thompson and Slabikowski Family
Qualification(s): Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.
Amount: 1 award of $1,000

Waterloo-Wellington Science & Engineering Fair (WWSEF) Scholarship [E0619]
Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.

Donor(s): University of Guelph
Qualification(s): Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.
Amount: various awards of $1,000

William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships [E0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mrs. Irene McEwen
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [E0634]
Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. William P. Weber
Qualification(s): Entering student-athlete who is a member of the Men’s Football team and achieved a minimum 80% admission average.
Amount: 1 award of $2,500

Entrance Scholarships with Financial Need

Bill Klopp Memorial Scholarship [E0150]
Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

Donor(s): Ross and Mary Lou Klopp
Qualification(s): Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.
Amount: 1 award of $500

Last Revision: Oct. 19, 2012
### Devine Family Scholarships [E4542]

On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government's OTSS program, established these two awards for the purpose of diversifying the ethnicity of the student body of the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out once every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Confirmation Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the "Devine Family Scholarship Application". Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards. ACCESS AWARD.

| Donor(s): | Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability, or who are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 2 awards of $30,000 (payable over 4 years of study) |

### Interhall Council Entrance Scholarship [E0636]

Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.

| Donor(s): | Interhall Council |
| Qualification(s): | Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability. |
| Amount: | 3 awards of $1,250 |

### John Embry Family Scholarship [E4549]

Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.

| Donor(s): | Mr. John Embry with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 2 awards of $3,500 |

### Kenneth O. Hammill-Blount Canada Scholarship [E4356]

Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government's OSOTF program. Selection will be based on greatest financial need from the President's, Lincoln Alexander's or Pamela Wallin's Chancellor's Scholarships applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who submitted an application for the President's, Lincoln Alexander's or Pamela Wallin's Chancellor's Scholarships should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) by April 15. ACCESS AWARD.

| Donor(s): | The Blount Foundation, Inc. with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s): | Entering students who have applied for the President's, Lincoln Alexander's or Pamela Wallin's Chancellor's Scholarships who are interviewed, but not successful in the competition with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount: | 1 award of $9,600 (payable in 8 payments of $1,200) |

### Landoni Athletic Scholarship [E4405]

Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Students must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD.

| Donor(s): | Peter Landoni with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 1 award of $1,000 |

### Norman L. Gibbins Microbiology Scholarship [E4392]

Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government's OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.

| Donor(s): | Family, friends and colleagues of Norman Gibbins with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Students entering the Microbiology major in the B.Sc. program with a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount: | 1 award of $1,000 |

### P.A. Clarke Family Scholarship [E9381]

Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.). This award is not tenable with the President's Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

| Donor(s): | Paul and Aileen Clarke |
| Qualification(s): | Students with a minimum 80% average with a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm. |
| Amount: | 1 award of $12,000 (payable over 4 years) |
### Rol-Land Farms Scholarships [E4519]
Established by Rol-Land Farms, with the assistance of the Ontario government's OSOTF program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

**Donor(s):** Rol-Land Farms with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students entering a degree program with demonstrated financial need and a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 13 awards of $2,000

### Spitzig Entrance Scholarship in Economics [E4543]
A graduate (1986) of the B.A. Economics program has established these scholarships with the assistance of the Ontario government's OSOTF program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

**Donor(s):** Anonymous with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $4,500

### W. F. Mitchell Athletic Scholarship [E4550]
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

**Donor(s):** The Mitchell Family with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

### Entrance Bursaries

#### Elizabeth Maud Hunter (Shier) Bursary [E3575]
This award was created to assist first year students in obtaining a post secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

**Donor(s):** The Estate of the Late William Henry “Harry” Hunter with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students entering any degree program at the University of Guelph with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 3 awards of up to $4,500

#### Harvey Graham Bursary [E3030]
Provided by Harvey Graham (O.A.C. ’39). Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15.

**Donor(s):** Harvey Graham, O.A.C. ’39

**Qualification(s):** Student who has demonstrated financial need with preference given to a student who comes from a working farm. Students graduating from Lindsay C. V. I., Fenelon Falls Secondary School, or I. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student’s home township.

**Amount:** 1 award of $1,200

#### International Student Entrance Bursaries [E3043]
In support of the University’s strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar’s Entrance Award Application to Student Financial Services.

**Donor(s):** University of Guelph

**Qualification(s):** Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.

**Amount:** Several awards ranging in value from $1,000 to $3,000

#### Registrar’s Entrance Bursaries [E0384]
Established by the University of Guelph to support entering students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Bursary, but can be held with all other entrance awards.

**Donor(s):** University of Guelph

**Qualification(s):** Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.

**Amount:** 500 awards of $2,000

#### Robert Arthur Stewart Bursaries [E3272]
Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

**Donor(s):** The Estate of Mrs. H. Stewart

**Qualification(s):** Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph

**Amount:** 12 awards of $500

### First Year Student Residence Bursaries [E3066]
These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15.

**Donor(s):** Student Housing Services

**Qualification(s):** Students entering any degree program with demonstrated financial need.

**Amount:** 5 awards of $500
University of Guelph Accessibility Bursaries [E3038]
Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Bursary, but can be held with all other Entrance Awards.

**Donate(s):** University of Guelph

**Qualification(s):** Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.

**Amount:** 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

**In-course Scholarships**

1961-1964 Redmen Football Scholarships [I0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipient(s) will be selected based upon extramural athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

**Donate(s):** Dr. Robert Keith (c/o 1961-1964 Football Committee)

**Qualification(s):** Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** several scholarships ranging from $1500 to $3500

2003-2009 Men's Cross Country and Track and Field Legacy Scholarship [I0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donate(s):** Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men's Cross Country team)

**Qualification(s):** Current member of the Gryphon Men's Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,500

AI Singleton Hockey Scholarships [I0687]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donate(s):** 1957-58 OA-VC Redmen Championship Hockey Team

**Qualification(s):** Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

Allen Keefe Track and Field Scholarship [I0663]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donate(s):** Allen Keefe

**Qualification(s):** In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $1,350

Association of Professional Engineers of Ontario Scholarship [I0018]

**Donate(s):** Professional Engineers of Ontario

**Qualification(s):** Students in their 2nd and 3rd years of an accredited engineering program. One award is given for high academic standing and the other for a combination of academic excellence and demonstrated leadership qualities.

**Amount:** 2 awards of $1,000

Bill Taylor Memorial Scholarship [I0280]
Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.

**Donate(s):** AMF Canada Ltd.

**Qualification(s):** Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or intercollegiate athletics.

**Amount:** 1 award of $900

Bob & Joyce Brooks Football Scholarships [I0691]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. No application is necessary.

**Donate(s):** Mrs. Joyce Brooks

**Qualification(s):** Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

Canadian Federation of University Women Scholarship [I0294]
The Guelph Chapter of the Canadian Federation of University Women provides this annual scholarship. Application is not required.

**Donate(s):** The Guelph Chapter of the Canadian Federation of University Women

**Qualification(s):** Female student registered in Year 3 in the Fall semester in either B.Eng., B.A. (College of Physical and Engineering Science) or B.Sc.(College of Physical and Engineering Science) who has the highest cumulative average. Preference will be given to a student who has graduated from a secondary school in Wellington County.

**Amount:** 1 award of $2,000

CFRU Volunteer Award [I0215]
Apply to the CFRU Board of Governors by April 30.

**Donate(s):** Station Manager, CFRU

**Qualification(s):** Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU.

**Amount:** 2 awards of $250

Class of 1970 Scholarship [I0424]
Established by the Silver Anniversary celebrants to commemorate the 25th anniversary of the University Class of 1970. This award rotates among all six colleges on the main campus. The appropriate College Award Committee selects the candidate each Fall semester and the candidate is announced each October. Application is not required.

**Donate(s):** Class 1970: 25th Reunion Gift

**Qualification(s):** Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’ Honours List.

**Amount:** 1 award of $900

Coach Rudy Florio Football Scholarship [I0737]
Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donate(s):** Mr. Rudy Florio

**Qualification(s):** Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $3,500

Last Revision: Oct. 19, 2012

2012-2013 Undergraduate Calendar
### College of Physical Engineering Science Academic Scholarship [10073]

Application is not required.

**Donor(s):** College of Physical and Engineering Science  
**Qualification(s):** Offered in the Winter semester to students who have completed at least 15.0 course credits in a College of Physical and Engineering Science program and have excellent grades but have not received awards recently.  
**Amount:** 2 awards of $250

### College of Physical Engineering Science Graduation Prize [C0075]

The winner will be selected in May from all students who have completed the program in the previous twelve months. Application is not required. One award of $250 and a commemorative plaque.

**Donor(s):** College of Physical and Engineering Science  
**Qualification(s):** Student graduating with the highest cumulative average from an honours B.Sc. program in a Physical and Engineering Science area.  
**Amount:** 1 award of $250, 1 Commemorative plaque

### CSCE Environmental and Water Resources Engineering Scholarships [10549]

Established by the School of Engineering in recognition of the conference entitled, An International Perspective on Environmental Engineering, organized and co-sponsored in 2002 by the School and proposed by the Environmental Engineering Division of the Canadian Society for Civil Engineering (CSCE) in co-operation with the Environmental and Water Resources Institute of the American Society of Civil Engineering. Application is not required.

**Donor(s):** School of Engineering  
**Qualification(s):** Full-time student registered in either Environmental Engineering or Water Resources Engineering with the highest cumulative average who has completed a minimum of 8.5 credits at the beginning of semester 4.  
**Amount:** 1 award of $400

### Deans’ Scholarships [10323]

This award was established by the Board of Governors’ in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.

**Donor(s):** Board of Governors  
**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.  
**Amount:** 150 awards of $1,000

### Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [10695]

Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

**Donor(s):** Various Donors  
**Qualification(s):** Current member of the Varsity Cross/Country or Track and Field Team, who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete  
**Amount:** 1 award of $1,350

### E.B. MacNaughton Convocation Prize [C0171]

Established by the College of Physical and Engineering Science to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Application is not required. One award of a plaque-mounted medal and $250.

**Donor(s):** The College of Physical and Engineering Science  
**Qualification(s):** The College of Physical and Engineering Science nominee for the Winegard Medal.  
**Amount:** 1 award of $250, 1 Plaque-mounted medal

### Elaine Scott-Thomas Track and Field Scholarship [10706]

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletics Awards Committee. No application is necessary.

**Donor(s):** Dave Scott-Thomas CBS BSc ’88  
**Qualification(s):** Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.  
**Amount:** 1 award of $1,500

### Embry Family Scholarship [10736]

Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Mr. John Embry  
**Qualification(s):** Current member of a varsity team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.  
**Amount:** 1 award of $3,500

### Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [10627]

Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Ernest Kendall  
**Qualification(s):** In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** 2 awards of $1,350

### Football Endowment Fund (FEF) Scholarship [10644]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Various University of Guelph donors  
**Qualification(s):** In-course student-athlete who is a current member of the Men’s football team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** various awards of $750 to $3,500

### George A. Gray O.A.C. ’51 Varsity Scholarships [10487]

Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

**Donor(s):** Mrs. George A. Gray  
**Qualification(s):** In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** 2 awards of $1,250

### George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [10677]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** George Ames  
**Qualification(s):** In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** 1 award of $3,500

### Gerd and Christel Baldauf Men’s Basketball Scholarship [10639]

Established by Christian Baldauf, BSc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. Christian Baldauf  
**Qualification(s):** In-course student-athlete registered in the BSc. program who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** 1 award of $3,500
### Governor General's Medal [C0044]
- **Donor(s):** The Chancellery
- **Qualification(s):** Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.
- **Amount:** 2 awards of a Silver medal each

### Gryphon Athletic Scholarships [10631]
- **Donor(s):** The Chancellery, Guelph Hydro, Student Housing Services, International Student Organization (ISO), Student Financial Services, University of Guelph
- **Qualification(s):** In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.
- **Amount:** Various awards of $750 to $3,500

### Helen Grace Tucker Design Prizes [C0365]
- **Donor(s):** Estate of Helen Grace Tucker, O.A.C.
- **Qualification(s):** Graduating student in each of the four engineering programs. The winners will be selected on the basis of best performance (at least 80%) in ENGG*2100, ENGG*3100 and the final design course.
- **Amount:** 4 awards of $500

### International Undergraduate Scholarship [10577]
- **Donor(s):** Students registered in the Environmental Engineering program who are full-time international students (defined as those paying full tuition fees, whose permanent home is outside Canada, and have received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who has the highest cumulative average at the University of Guelph with a minimum cumulative average of 75%.
- **Amount:** 2 awards of $2,000

### Jack and Lillian MacDonald Scholarship [E0379]
- **Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, University of Guelph
- **Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP). Students registered in the Environmental Engineering program who have completed between 15 and 17 credits and at least 2 co-op work terms.
- **Amount:** 1 award of $900

### Jim MacKenzie Scholarship [I0602]
- **Donor(s):** The Chancellery
- **Qualification(s):** Alumni who have completed between 15 and 17 credits and at least 2 co-op work terms.
- **Amount:** 1 award of $1,500

### John Eccles Scholarship [10093]
- **Donor(s):** Student Housing Services
- **Qualification(s):** Full-time student registered in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.
- **Amount:** 1 award of $600

### Kelly Bertrand Cross Country Scholarship [10684]
- **Donor(s):** Kelly Bertrand
- **Qualification(s):** Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
- **Amount:** 1 award of $2,000

### Kenneth W. Hammond Prize [10045]
- **Donor(s):** Kenneth W. Hammond
- **Qualification(s):** Student who has demonstrated an understanding of the world's resource situation and its proper use by humankind.
- **Amount:** 1 award of $1,000

### Kevin Durie Memorial Scholarship [10653]
- **Donor(s):** Christine Blake-Durie
- **Qualification(s):** Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.
- **Amount:** 1 award of $1,000

### Kip Hunter Prize [10139]
- **Donor(s):** Faculty, students and staff of the Philosophy Department
- **Qualification(s):** Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.
- **Amount:** 1 Book prize

### Knut Karl Grimstad Memorial Scholarship [10116]
- **Donor(s):** Mrs. Anne Grimstad
- **Qualification(s):** Outstanding students majoring in Water Resources Engineering. Scholarships are based on academic proficiency in semesters 5 and 6, and on participation in extracurricular activities associated especially with the profession of engineering.
- **Amount:** 2 awards of $600
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lambda Foundation Scholarship in LBGT Studies [I0591]</td>
<td>1 award of $1,000</td>
<td>Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to LBGT peoples.</td>
<td>Lambda Foundation and other donors</td>
</tr>
<tr>
<td>Men's Basketball Scholarships [I0638]</td>
<td>4 awards of $2,500</td>
<td>In-course student-athlete who is a current member of the Men's Basketball varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Anonymous (Alumni)</td>
</tr>
<tr>
<td>Lanle and Prokipcak Chemistry Scholarship [I0528]</td>
<td>1 award of $1,000</td>
<td>Student registered in any program offered by C.P.E.S. who has completed CHEM<em>1040, CHEM</em>1050, and has completed a minimum of 10.0 credits up to a maximum of 14.75 credits.</td>
<td>Professor Gordon L. Lange, Joe M. Prokipcak and friends and colleagues</td>
</tr>
<tr>
<td>Larry Pearson Men's Volleyball Athletic Scholarships [I0618]</td>
<td>several awards up to $3,500</td>
<td>In-course student-athlete who is a current member of the men's varsity volleyball team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Larry Pearson</td>
</tr>
<tr>
<td>Latifpour-Keparoutis Family Varsity SwimTeam Scholarship [I0732]</td>
<td>1 award of $1,200</td>
<td>Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year.</td>
<td>Maryam Latifpour-Keparoutis</td>
</tr>
<tr>
<td>Leonard Conolly Exchange Student Scholarship [I0446]</td>
<td>1 award of $1,000</td>
<td>Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).</td>
<td>Students, staff, faculty and friends of Dr. Leonard Conolly</td>
</tr>
<tr>
<td>Lloyd Dorrr Memorial Hockey Scholarship [I0708]</td>
<td>1 award of $1,000</td>
<td>Current member of the men's varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.</td>
<td>Family and Friends of the late Lloyd Dorrr</td>
</tr>
<tr>
<td>Men's Soccer Alumni Scholarship [I0771]</td>
<td>several awards ranging in value from $1,000 to $3,500</td>
<td>Made possible by the generous contributions of Men's Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities.</td>
<td>Mr. Paul Wombwell (on behalf of the Men's Soccer Alumni Committee)</td>
</tr>
<tr>
<td>Nathan Max Goldman Choir Scholarships [I0774]</td>
<td>2 awards of $1,000</td>
<td>Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and have been a member of the University of Guelph Choirs for at least two years.</td>
<td>Mrs. Anne Goldman and the family of Nathan Max Goldman</td>
</tr>
<tr>
<td>O.A.C. '55 Scholarships [I0064]</td>
<td>1 award of $2,000</td>
<td>Provided by the class of O.A.C. '55. Recipients will have made an outstanding contribution to College life through academic proficiency and participation in extracurricular activities and can be considered to have done the most for the College, for fellow students and in their personal development.</td>
<td>Provided by the class of O.A.C. '55. Recipients will have made an outstanding contribution to College life through academic proficiency and participation in extracurricular activities and can be considered to have done the most for the College, for fellow students and in their personal development.</td>
</tr>
<tr>
<td>Priscilla and Stanford Reid Trust Prize [I0597]</td>
<td>1 award of $500</td>
<td>Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.</td>
<td>Priscilla and Stanford Reid Trust Fund</td>
</tr>
<tr>
<td>Scholarship Name</td>
<td>Code</td>
<td>Application Method</td>
<td>Qualification(s)</td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td>--------</td>
<td>---------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Professional Staff Association Scholarship [I0628]</td>
<td></td>
<td>Apply by letter and a resume to the Chair of the School of Engineering Awards Committee by October 1.</td>
<td>Student who has completed 17.25 credits of the Biological Engineering in the B.Eng. program. Academic standing and demonstration of leadership qualities will be used to select the recipient from eligible candidates.</td>
</tr>
<tr>
<td>Thomas H. Peters Scholarship [I0233]</td>
<td></td>
<td>Application is not required.</td>
<td>Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP<em>2280, SOIL</em>3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.</td>
</tr>
<tr>
<td>Professional Staff Association Scholarship</td>
<td></td>
<td></td>
<td>Current member of the varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.</td>
</tr>
<tr>
<td>Professor Victor Matthews Track and Field Scholarships [I0707]</td>
<td></td>
<td>No application necessary.</td>
<td>Head Coach will nominate students to the Athletic Awards Committee. The recipients will be selected based on demonstrated leadership qualities and contributions to the team.</td>
</tr>
<tr>
<td>Russell Athletic Scholarships [I0722]</td>
<td></td>
<td></td>
<td>The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University, and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.</td>
</tr>
<tr>
<td>Rachel Cliff Scholarship [I0790]</td>
<td></td>
<td>Application is not necessary.</td>
<td>Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.</td>
</tr>
<tr>
<td>United Steelworkers Local 4120 Scholarship [I0293]</td>
<td></td>
<td>Application is not required.</td>
<td>Current member of a varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.</td>
</tr>
<tr>
<td>University of Guelph Alumni Legacy Scholarship [I0735]</td>
<td></td>
<td>Application is not required.</td>
<td>In-course student-athlete who is a current member of the Men’s basketball team and has achieved a minimum 70% average in the previous academic year.</td>
</tr>
<tr>
<td>Stephanie Wilken Volunteer Scholarship [I0449]</td>
<td></td>
<td>Application is not required.</td>
<td>Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre.</td>
</tr>
</tbody>
</table>
Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]

Selection will be made on the basis of participation in university activities and in the student’s home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

Donor(s): Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family
Qualification(s): Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.
Amount: 2 awards of $400

W.C. Winegard Medal [C0311]

The W.C. Winegard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

Donor(s): The Board of Governors of the University
Qualification(s): Graduating student who excels both academically and in extracurricular activities.
Amount: 1 award of a Gold medal

W.C. Wood Scholarship in Engineering [I0787]

Selection will be based on the highest cumulative average. No application necessary.

Donor(s): W.C. Wood Education Trust
Qualification(s): Students registered in any major in the Bachelor of Engineering program who have completed a minimum of 7.0 ENGG credits including ENGG 3100.
Amount: 1 award of $5,000

W.N. Vaughan Medal [C0299]

Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.

Donor(s): Friends of Walter N. Vaughan
Qualification(s): Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.
Amount: 1 award of a Medal

William L. McEwen OAC ‘43 Men’s Varsity Hockey Scholarships [I0703]

The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mrs. Irene McEwen
Qualification(s): Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [I0634]

Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. William P. Weber
Qualification(s): In-course student-athlete who is a current member of the Men’s Football team and achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $2,500

In-course Scholarships with Financial Need

3M Canada Scholarships [I0564]

Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): 3M Canada Company
Qualification(s): Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.
Amount: various award of up to $4,000
### Eleanor Morgan & Bill Archibald Scholarships [I4540]
The family of Eleanor and Bill Archibald, with the assistance of the Ontario government's OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** The Family of Eleanor & Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, have demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $1,000

### Erin Demers Memorial Scholarship [I0406]
The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.

**Donor(s):** Family and friends of Erin Katrina Demers  
**Qualification(s):** Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.

**Amount:** 1 award of $1,500

### Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [I4546]
Established by Ernest Kendall, O.A.C. BSA 1932, with the assistance of the Ontario government's OSOTF program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award, you must list it on your N.A.F. Selection will be made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD.

**Donor(s):** Ernest Kendall with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students with demonstrated financial need who are members of the women's varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

### Euclid-Hitachi Scholarships [I4517]
Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $1,500

### Graham Family Incentive Scholarship [I4506]
Provided by Harvey Graham (O.A.C. ’39) with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** Harvey Graham O.A.C. ’39 with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $4,000

### John Embry Family Scholarship [I4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** Mr. John Embry with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Student-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $3,500

### Landoni Athletic Scholarship [I4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD.

**Donor(s):** Peter Landoni with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,000

### Residence Life Staff Scholarship [I0697]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.

**Donor(s):** Student Housing Services  
**Qualification(s):** Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.

**Amount:** 2 awards of $500

### Returning Student Residence Scholarship [I0696]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is award is conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.

**Donor(s):** Student Housing Services  
**Qualification(s):** Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.

**Amount:** 3 awards of $500
### Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [E4515]

Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS AWARD.

| Donor(s): | Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Entering student athlete who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent, and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | various awards of up to $3,500 |

### W. F. Mitchell Athletic Scholarship [I4550]

Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

| Donor(s): | The Mitchell Family with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Students who is a member of a varsity team who has achieved a minimum 70% average in the previous academic year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 1 award of $1,350 |

### William & Nona Heaslip Scholarship [I0589]

Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time (minimum 80% of a full course load) study. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

| Donor(s): | The William and Nona Heaslip Foundation |
| Qualification(s): | Students that have completed 4.0 credits but no more than 6.0 credits |
| Amount: | 2 awards of $15,000 |

### In-course Bursaries

#### Bette Stephenson Accessibility Bursary [I3054]

In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student's advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

| Donor(s): | University of Guelph |
| Qualification(s): | Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents. |
| Amount: | 3 awards to a maximum of $1,500 |

#### Birks Family Foundation Bursary [I3002]

Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

| Donor(s): | Birks Family Foundation |
| Qualification(s): | Students in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures. |
| Amount: | 1 award of $1,000 |

#### Brinson Partners Inc. Bursaries [I3526]

Brinson Partners Inc., with the assistance of the Ontario government’s OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

| Donor(s): | Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s): | Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount: | 2 awards of $1,500 |
## Burnbrae Farms Bursaries [I3525]
Established by Burnbrae Farms, with the assistance of the Ontario government's OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7. **ACCESS AWARD.**

**Donor(s):** Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,500

## C.P.E.S Engineering ACCESS Bursary [I3527]
Established with the aid of the Ontario government's OSOTF program. Apply to Student Financial Services with a completed Needs Assessment Form by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. **ACCESS AWARD.**

**Donor(s):** Friends and Alumni of C.P.E.S with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students registered in any of the engineering programs at or beyond the third semester level with a minimum 65% cumulative average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 1 award of $750

## Class of '72: 25th Reunion Bursaries [I3512]
Established by the Class of 72: 25th Reunion Fund with the assistance of the Ontario government's OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. **ACCESS AWARD.**

**Donor(s):** Class of '72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 3 awards of $1,000

## Credit Valley Conservation Authority Foundation Bursary [I3007]
Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. **ACCESS AWARD.**

**Donor(s):** Credit Valley Conservation Authority Foundation  
**Qualification(s):** Full-time student registered in B.A. Geography, B.Sc. Geographic Information Systems and Environmental Analysis, B.Sc. Engineering (Water Resource Engineering), B.Sc.(Agr.) Agroecosystem Management or B.Sc.(Env.) Geography majors with demonstrated financial need. Preference will be given to a student who resides in a member municipality of the Credit Valley Authority Foundation.  
**Amount:** 1 award of $500

## Elizabeth Burton Bursaries [I3503]
Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. **ACCESS AWARD.**

**Donor(s):** Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** Several awards of varying amounts

## Gryphon Investment Council Bursaries [I3513]
Established by Gryphon Investment Counsel, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. **ACCESS AWARD.**

**Donor(s):** Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,500

## Guelph Compassionate Health and Dental Bursary [I3061]
This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year. **ACCESS AWARD.**

**Donor(s):** Student Health and Dental Plan Reserve  
**Qualification(s):** Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress.  
**Amount:** Several varies to a maximum $1,500

## Guelph Student Assistance ACCESS Bursaries [I3556]
These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. **ACCESS AWARD.**

**Donor(s):** Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** Several awards of varying amounts up to $1,000

## Guelph Student Assistance Program [I3056]
These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. **ACCESS AWARD.**

**Donor(s):** Undergraduate Students  
**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need.  
**Amount:** Several awards of varying amounts up to $1,000

## Helen Mahon Memorial Bursary [I3063]
Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter. **ACCESS AWARD.**

**Donor(s):** Family and Friends of Helen Mahon  
**Qualification(s):** Students registered in any program who come from a family where one parent is deceased.  
**Amount:** 1 award of $500
### Howard and Myrtle Rogers Bursaries [I3537]
Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>10 up to $2,000</td>
</tr>
</tbody>
</table>

### International Emergency Medical Aid Assistance [I3059]
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>University of Guelph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Any international student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards of varying amounts</td>
</tr>
</tbody>
</table>

### International Student Bursaries [I3009]
Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mrs. Norma L. Valeriote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several of varying amounts</td>
</tr>
</tbody>
</table>

### Irvine and Grace Black Memorial Bursary [I3051]
Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women’s Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women’s Institute by October 7.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Family and friends of Irvine and Grace Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women’s Institute.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $500</td>
</tr>
</tbody>
</table>

### John & Margaret Van Loon Family Bursary in Science [I3549]
Established on behalf of the Van Loon Family in honour of parents John & Margaret Van Loon. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mr. Paul Van Loon and Mrs. Lauralene Van Loon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students registered in any program in the College of Biological Science or the College of Physical &amp; Engineering Science who have completed a minimum of 2.5 credits. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $1,000</td>
</tr>
</tbody>
</table>

### Lindsay Christie Bursary [I3004]
Made available by the family of Lindsay W. Christie. Apply by confidential letter to Chair, Awards Committee, School of Engineering by December 1.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Family of Lindsay W. Christie (Fastforms Inc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Full-time students in the B.ENG. program with a demonstrated financial need that diminishes personal involvement in the program and/or participation in personal development through undergraduate conferences or congresses that entail expenses for travel and accommodation.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards totalling $1,000</td>
</tr>
</tbody>
</table>

### Mary I. Whitelock Bursaries [I3524]
Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government’s OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>13 awards of $2,000</td>
</tr>
</tbody>
</table>

### Murray McEwen Engineering Safe Water Bursary [I3572]
Selection will be based on the highest financial need. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Murray McEwen with matching funding through the Ontario Trust for Student Support program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students registered in the Water Resources Engineering major who have completed a minimum of 1.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $1,000</td>
</tr>
</tbody>
</table>

### O.A.C. ’55 Access Bursaries [I3517]
Provided by the class of O.A.C. ’55 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>O.A.C. Class of ’55 with matching funding through the Ontario Student Opportunities Trust Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students at any semester level in an O.A.C. degree program or students enrolled in the B.ENG. program with demonstrated financial need and a 60% minimum cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statement on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>6 awards of $300</td>
</tr>
</tbody>
</table>

### Ontario Co-operatives R.P. Forshaw Bursary [I3013]
The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $400</td>
</tr>
</tbody>
</table>

### Proctor Lab. Access Bursary in Engineering [I3528]
Established with the aid of the Ontario government’s OSOTF program. Apply to Student Financial Services with a completed Needs Assessment Form by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Proctor Lab. with matching funding through the Ontario Student Opportunities Trust Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students registered in any of the engineering programs at or beyond the third semester level with a minimum 65% cumulative average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $900</td>
</tr>
</tbody>
</table>
### Robert Auger Humanitarian Bursary [I3058]

This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.

**Donor(s):** Office of Registrarial Services  
**Qualification(s):** Students registered in a degree program.  
**Amount:** Several grocery vouchers or book vouchers

### Ron Scriver Memorial Bursary [I3547]

Established in memory of Mr. Ron Scriver (1946 - 2005) C.P.E.S. B.A. ’76, to honour his outstanding 32-year career with the Ontario Universities’ Application Centre and his extensive involvement with colleagues throughout the University system. Preference will be given to students registered in the Bachelor of Computing Science Program. Apply with a Financial Need Assessment Form to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Family and Friends of Ron Scriver with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students registered in any program offered by C.P.E.S. with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 1 award of $1,500

### Scotiabank Bursaries [I3532]

Established by Scotiabank, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 2 awards of $1,500

### Shirley Endean Bursaries [I3570]

These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support Program  
**Qualification(s):** Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** Several awards of varying amounts

### University of Guelph Alumni Association Access Bursaries [I3523]

Established by the University of Guelph Alumni Association, with the assistance of the Ontario government’s OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 2 awards of $1,000

### University of Guelph Child Care Bursaries [I3053]

In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need.  
**Amount:** Several awards of up to $2,000

### University of Guelph International Bursary [I3048]

The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

**Donor(s):** University of Guelph  
**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.  
**Amount:** Several varies

### University of Guelph Undergraduate In-Course Bursaries (MET-TR-U) [I3037]

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Ontario students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.  
**Amount:** Several awards ranging in value from $100 to $4,000

### University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I3047]

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph  
**Qualification(s):** Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.  
**Amount:** Several awards to a maximum of $500

### University Police Bursaries [I3019]

The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** The University Police  
**Qualification(s):** Full-time undergraduate with demonstrated financial need.  
**Amount:** Several of various amounts

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Last Revision: Oct. 19, 2012  
2012-2013 Undergraduate Calendar
### In-course Travel Grants

#### Aeroplan International Travel Grant [T0604]
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a "Travel Grant Need-based Application". Preference will be given to students participating in the semester abroad or academic exchanges. Award is subject to the availability of Aeroplan miles and may not be available every year.

- **Donor(s):** Aeroplan
- **Qualification(s):** Students registered in a degree program who have completed a minimum of 4.0 credits; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.

#### Arthur D. Latornell Undergraduate Travel Grants [T0058]
An endowment fund established in memory of Arthur D. Latornell, O.A.C. ’50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.

- **Donor(s):** The Estate of Arthur D. Latornell
- **Qualification(s):** Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.

#### Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]
The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government's OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.

- **Donor(s):** Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund

#### OURA Innovation Travel Grant [T4393]
Established in recognition of an innovative student fee protocol put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7th with a completed Financial Need Assessment Form and include one-page description of the intended travel. ACCESS AWARD

- **Donor(s):** Ontario University Registrars' Association (OURA) with matching funding through the Ontario Trust for Student Support program

#### Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]
The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government's OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD.

- **Donor(s):** The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund

#### University of Guelph Travel Scholarships [T0421]
The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.

- **Donor(s):** University of Guelph

### Awards to Full-time Undergraduate Students

<table>
<thead>
<tr>
<th>Award Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Student Assistance Program [T3057]</td>
<td>University of Guelph</td>
<td>Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).</td>
<td>Several awards of various amounts to a maximum of $1,000</td>
</tr>
<tr>
<td>OURA Innovation Travel Grant [T4393]</td>
<td>Ontario University Registrars' Association (OURA) with matching funding through the Ontario Trust for Student Support program</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>1 award of $350</td>
</tr>
<tr>
<td>Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]</td>
<td>The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Several awards of varying amounts to a maximum of $1,000</td>
</tr>
<tr>
<td>University of Guelph Travel Scholarships [T0421]</td>
<td>University of Guelph</td>
<td>Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.</td>
<td>Several awards up to $1,500</td>
</tr>
</tbody>
</table>

### Terms and Conditions
- Students must apply with a completed Need-Based Travel Grant Application at least one month prior to departure.
- Deadlines and amounts may vary.
- Additional information and application details can be found in the Student Financial Services section.
- Students must meet eligibility criteria as specified in the program descriptions.

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Last Revised: Oct. 19, 2012
Bachelor of Landscape Architecture

Please refer to the General Statement on Awards for:

• Award Eligibility
• ACCESS Awards Eligibility
• Ontario Student Opportunity Trust Fund (OSOTF) Program
• How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

Entrance Scholarships

1961-1964 Redmen Football Scholarships [E0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipients(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.
Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [E0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

AI Singleton Hockey Scholarships [E0687]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [E0663]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Allen Keele
Qualification(s): Entering student-athlete who is a member of the Varsity track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

Amos & William Lowe Memorial Scholarship [E0158]
Endowed by the late William B. Lowe of Fort Francis, Ontario. Preference will be given first to eligible students from the district of Rainy River, then from the district of Kenora or Thunder Bay, and finally from the remaining districts of Northern Ontario. Application is not required.

Donor(s): William B. Lowe and Amos Edgar Lowe
Qualification(s): Student entering any of the undergraduate degree programs of the Ontario Agricultural College.
Amount: 1 award of $1,250

Angelo and Frank Agro Undergraduate Scholarship [E0520]
These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership role(s) in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

Donor(s): The Frank Agro Estate
Qualification(s): Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4H projects.
Amount: 8 awards of $7,000 (payable over 4 years of study)

Barry Lee Scholarship for Agricultural Excellence [E0797]
Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

Donor(s): The Regional Municipality of Halton
Qualification(s): Students entering any undergraduate program offered by OAC.
Amount: 1 award of $1,000

Board of Governors’ Scholarships [E0317]
The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

Donor(s): Board of Governors
Qualification(s): Academically outstanding students entering semester 1 with the highest admission averages of the entering cohort.
Amount: 25 awards of $8,000 (payable over 4 years of study)

Bob & Joyce Brooks Football Scholarships [E0691]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Mrs. Joyce Brooks
Qualification(s): Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Coach Rudy Florio Football Scholarship [E0737]
Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. Rudy Florio
Qualification(s): Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Dr. C. John Small Commonwealth Scholarship [I0611]
Established in honour of Dr. C. John Small, OAC BSA ‘42, Hon D. Law ’75, and his lifelong dedication to foreign service. Selection will be based on the assessment of: (a) a one-page submission describing the significance for the student visiting Guelph to the program of study at the partner exchange University, (b) two faculty references of no more than one-page each, and (c) consistent high performance in course work completed, as documented by a transcript of program grades to date. Apply to the Centre for International Programs by May 1 for visiting during the subsequent Fall or Winter semesters with the above mentioned documents.

Donor(s): Mrs. Jean K. Small
Qualification(s): Full-time visiting exchange students registered for at least one semester from a Commonwealth developing country who are pursuing studies or conducting research in the area of agriculture and rural development.
Amount: 1 award of $1,500

Last Revision: Oct. 19, 2012
2012-2013 Undergraduate Calendar
Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]

The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the Varsity Cross / Country or Track and Field Team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,500

Dr. George A. Gray O.A.C. '51 Varsity Scholarships [E0487]

Established in memory of Dr. George Gray, a graduate of '51A and O.A.C. '60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to Graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.

Donor(s): Friends and Associates
Qualification(s): Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph.
Amount: 1 award of $1,000

George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): George Ames
Qualification(s): Entering student-athlete who is a member of the Varsity Cross Country team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Gerd and Christel Baldauf Men's Basketball Scholarship [E0639]

Established by Christian Baldauf, BSc. '95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. Christian Baldauf
Qualification(s): Student-athlete entering the BSc program who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Elaine Scott-Thomas Track and Field Scholarship [E0706]

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Dave Scott-Thomas CBS BSc '88
Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,500

Embry Family Scholarship [E0736]

Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. John Embry
Qualification(s): Entering student-athlete who is a member of a varsity team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [E0627]

Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Ernest Kendall
Qualification(s): Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.
Amount: 2 awards of $1,350

Gordon W. Innes Scholarship [E0140]

Application is not required.

Donor(s): Gordon W. ‘Sparky’ Innes Scholarship Fund Committee of the Woodstock Agricultural Society.
Qualification(s): Student entering an undergraduate degree program from Oxford County with the highest admission average.
Amount: 1 award of $1,400

 Gryphon Athletic Scholarships [E0631]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): University of Guelph
Qualification(s): Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
Amount: various awards of $750 to $3,500

Hardy International Student Scholarship [E0659]

Selection is based on the assessment of the student's admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required.

Donor(s): Mrs. Marion Hardy
Qualification(s): Full-time international students (defined as paying the international student tuition and fees) entering any degree program.
Amount: 1 award of $3,000

International Student Entrance Scholarships [E0408]

In support of the University's strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is not required.

Donor(s): University of Guelph
Qualification(s): Students on a “student visa” entering an undergraduate degree program at the University of Guelph with a record of high academic achievement and extracurricular involvement, and studying full-time. This award is offered for the first year of study.
Amount: Several awards ranging in value from $500 - $6,000

George A. Gray O.A.C. '51 Varsity Scholarships [E0487]

Established in memory of George Gray, O.A.C. '51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

Donor(s): Mrs. George A. Gray
Qualification(s): Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
Amount: 2 awards of $1,250

J.D. MacLachlan Scholarship [E0170]

Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.

Donor(s): The J.D. MacLachlan Trust
Qualification(s): Students entering any degree program at the University of Guelph.
Amount: 1 award of $1,500
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jack and Lillian MacDonald Scholarship [E0379]</td>
<td>1 award of $900</td>
<td>Entering students coming from the Six Nations Polytechnic (SNP).</td>
<td>Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald</td>
</tr>
<tr>
<td>Kelly Bertrand Cross Country Scholarship [E0684]</td>
<td>1 award of $2,000</td>
<td>Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.</td>
<td>Kelly Bertrand</td>
</tr>
<tr>
<td>Larry Pearson Men's Volleyball Athletic Scholarships [E0618]</td>
<td>several awards up to $3,500</td>
<td>Entering student-athlete who is a member of the men's varsity volleyball team and who has achieved a minimum 80% admission average.</td>
<td>Larry Pearson</td>
</tr>
<tr>
<td>Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [E0732]</td>
<td>1 award of $1,200</td>
<td>Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.</td>
<td>Many Donors</td>
</tr>
<tr>
<td>Lincoln Alexander Scholarships [E0689]</td>
<td>1 award of $1,000</td>
<td>Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and communities.</td>
<td>Many Donors</td>
</tr>
<tr>
<td>Lloyd Dorr Memorial Hockey Scholarship [E0708]</td>
<td>1 award of $1,000</td>
<td>Entering student-athlete who is a member of the men's varsity hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.</td>
<td>Family and Friends of the late Lloyd Dorr</td>
</tr>
<tr>
<td>McArthur-Humphries Scholarship [E0183]</td>
<td>4 awards of $2,500</td>
<td>Entering student-athlete who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.</td>
<td>Anonymous (Alumnus)</td>
</tr>
<tr>
<td>Men's Basketball Scholarships [E0638]</td>
<td>several awards ranging in value from $1,000 to $3,500</td>
<td>Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.</td>
<td>Many Donors</td>
</tr>
<tr>
<td>Men's Soccer Alumni Scholarship [E0771]</td>
<td>1 award of $3,500</td>
<td>Entering student-athlete who is a member of the varsity cross-country, track and field, or varsity soccer team and who has achieved a minimum 80% admission average.</td>
<td>The Moulton and Hutchinson Families</td>
</tr>
<tr>
<td>Moulton-Hutchinson Family Track and Field Scholarship [E0705]</td>
<td>1 award of $1,000</td>
<td>Students entering any OAC degree program with a minimum 80% admission average.</td>
<td>Many Donors</td>
</tr>
<tr>
<td>Ontario Institute of Agrologists' Mike Jenkinson Memorial Scholarship [E0738]</td>
<td>1 award of $1,000</td>
<td>Students entering any OAC degree program with a minimum 80% admission average.</td>
<td>Many Donors</td>
</tr>
</tbody>
</table>

An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county.
## Pamela Wallin Chancellor’s Scholarships [E0688]
Established in 2009 in honour of Pamela Wallin, Chancellor of the University of Guelph and considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have taken a leadership role in activities that demonstrate an interest in international relations and development and who indicate an ongoing desire to gain a broader subject knowledge through course work and/or engagement in the discipline and demonstrate the potential to become leaders in society.  
**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

## President’s & Chancellor’s Finalists Scholarship [E0651]
Established in recognition of demonstrated academic excellence, leadership ability and participation in the President's and Chancellor's Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President's or Chancellor’s Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.

**Donor(s):** Provost, and Vice-President Academic of the University of Guelph  
**Qualification(s):** Students entering any degree program who have been interviewed for consideration for a President's or Chancellor's Scholarship.  
**Amount:** several awards of $500

## Professor Victor Matthews Track and Field Scholarships [E0707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors  
**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.  
**Amount:** up to 10 3500 each

## Quinn Memorial Scholarship [E0578]
Established in memory of Ronald J. Quinn (O.A.C. ’35) to an entering O.A.C. international full-time or exchange student. Selection will be based on academic performance, letters of reference and an assessment of the admission application package. Application is not required.

**Donor(s):** Mrs. Helen Quinn (O.A.C. ’35)  
**Qualification(s):** Entering semester one of an O.A.C. program to an international full-time student or to an international exchange student with a preference to those students from developing nations.  
**Amount:** 1 award of $1,500

## President’s Scholarship [E0238]
Established in 1987 in honour of their donors or distinguished members of the University and are considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the Lincoln Alexander Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

**Donor(s):** A number of President's Scholarships have been named in honour of the following people and/or donors:  
- Cecil H. Franklin and Ingrid Franklin  
- Charles S. Humphrey  
- Jack R. Longstaffe  
- Burton C. Matthews  
- Kathleen and Frederick Metcalf  
- Lillian Stewart Usher  
- Charles S. Humphrey  
- Burton C. Matthews  
- Kathleen and Frederick Metcalf  
- Lillian Stewart Usher  
- Kathleen and Frederick Metcalf  
- Lillian Stewart Usher  

In honour of Cecil Franklin, former Chair of the Board of Governors and Honorary Fellow of the University, the University of Guelph has named one of these twelve prestigious entrance awards to recognize his financial contributions and volunteer support to the President's Entrance Scholarship program.

**Donor(s):** In memory of Charles S. Humphrey, a former President of Hart Chemical Company Canada Ltd. and long-time friend, the University has named one of these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President's Entrance Scholarship program.

**Donor(s):** The University of Guelph has named one of these twelve prestigious entrance awards in memory of Jack R. Longstaffe to recognize his financial contribution through his estate to the President's Entrance Scholarship program.

**Donor(s):** The University of Guelph has named one of these twelve prestigious entrance awards in honour of Burton C. Matthews to recognize his insight and leadership in establishing the President's Entrance Scholarship program.

**Donor(s):** Mr. and Mrs. F.T. Metcalf of Guelph have endowed this award. After a distinguished career in cable TV, broadcasting and publishing, the late Mr. Metcalf retired as President of Maclean Hunter Ltd. and Chairman of the Board of Maclean Hunter Cable Ltd. He was Honorary Chairman of Maclean Hunter Cable Ltd. and a member of the University of Guelph Heritage Board (1996).

**Donor(s):** Two of the scholarships are endowed by the four shareholders of Rol-land Farms Limited of Blenheim, Ontario, Hank, Peter, Arthur and Eric Vander Pol and their families. The Vander Pol families are generous supporters of a number of University projects and programs.

**Donor(s):** The University of Guelph has named one of these twelve prestigious entrance awards in honour of Lillian Stewart Usher a friend of the University to recognize her financial contribution through her estate to the President's Entrance Scholarship program.

**Donor(s):** Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and/or communities.  
**Amount:** 8 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)
**IX. Scholarships and Other Awards, Bachelor of Landscape Architecture**

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Code</th>
<th>Amount Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Guelph Faculty Association Scholarship</td>
<td>[E0292]</td>
<td>Award is payable at $750 per annum in the student's 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td><strong>University of Guelph Faculty Association</strong></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>Students entering any undergraduate degree program at the University of Guelph from Wellington county.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)</td>
</tr>
<tr>
<td>W. Penri Morris Memorial Scholarship</td>
<td>[E0430]</td>
<td>Established by the family in memory of Penri Morris, who was killed World War II action in 1944 at the age of 21. Penri grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Prof. Rosalina Morris</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Walter and Halina Slabikowski Scholarship</td>
<td>[E0766]</td>
<td>This scholarship was established in memory of Walter and Halina Slabikowski who sent their first generation Canadian born children to university to enrich their lives and provide them with greater opportunities. The award will be given to the student with the highest admission average. The residence deposit must be received by published deadline date. Submit by email to awards.registrar.uoguelph.ca your full name, student ID number and a statement attesting to your parents’ place of birth and non participation in post secondary education by April 15th.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Irene Thompson and Slabikowski Family</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Waterloo-Wellington Science &amp; Engineering Fair (WWSEF) Scholarship</td>
<td>[E0619]</td>
<td>Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>University of Guelph</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>various awards of $1,000</td>
</tr>
<tr>
<td>William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships</td>
<td>[E0703]</td>
<td>The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Mrs. Irene McEwen</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>William P. Weber Football Scholarship</td>
<td>[E0634]</td>
<td>Established by Dr. William P. Weber, OVC ’39, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Dr. William P. Weber</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>Entering student-athlete who is a member of the Men’s Football team and achieved a minimum 80% admission average.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of $2,500</td>
</tr>
</tbody>
</table>

**Rachel Cliff Scholarship [E0790]**

The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Ronald & Nancy Cliff

**Qualification(s):** Entering student-athlete who is a member of the Women’s Middle Distance Team and a distance runner who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,500

**Sprung Family Men’s Basketball Scholarship [E0672]**

Established by Timothy Sprung, CSS BA’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Mr. Timothy Sprung

**Qualification(s):** Entering student-athlete who is a member of the Men’s basketball team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $3,500

**Ted Morwick Scholarship [E0796]**

Established by Alumnus Ted Morwick, BA ’70. The student with the highest admission average will be selected. This award is conditional on maintaining a 80% average in the sophomore year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify. (i.e. The student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year.) If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opportunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary.

**Donor(s):** Mr. Edward (Ted) Morwick

**Qualification(s):** Students entering any degree program in the College of Arts.

**Amount:** 1 award of $8,000 (payable over four years.)

**Tom Mooney Scholarship [E0709]**

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors

**Qualification(s):** Entering student-athlete who is a member of the varsity men’s football team or men’s basketball team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

**Amount:** Numerous awards ranging in value from $1,000 to $3,500

**TSC Stores Scholarship in Memory of Gordon Illes [E0731]**

Established in memory of Gordon Illes, a 1974 graduate of Ridgetown. Selection based on the quality of experience and/or leadership in volunteerism within the agriculture industry and the community, including extra curricular activities and career aspirations. (e.g. 4H, Junior Farmers, agricultural work experience). Preference will be given to current employees of TSC Stores or their children. Apply by April 15th to the OAC Awards Office with a letter outlining career aspirations, extracurricular and community involvement in agri-food related activities and include a letter from TSC Stores management to verify employment if applicable.

**Donor(s):** TSC Stores L.P. (TSC)

**Qualification(s):** Students entering any OAC degree program at the Guelph, Ridgetown or Kemptville campuses with a minimum 80% admission average.

**Amount:** 1 award of $1,000

**University of Guelph Entrance Scholarships [E0291]**

The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student’s financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive this award. Application is not required.

**Donor(s):** University of Guelph

**Qualification(s):** All students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average.

**Amount:** Several awards of $2,000, Several awards of $3,000
Entrance Scholarships with Financial Need

Bill Klopp Memorial Scholarship [E0150]
Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

Donor(s): Ross and Mary Lou Klopp
Qualification(s): Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.
Amount: 1 award of $500

Devine Family Scholarships [E4542]
On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government's OTSS program, established these two awards for a student having a disability (both parts, the E.N.A.F. and the application) is April 15. Scholarship offers will be made in May. This award is tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards.

Donor(s): On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government’s OTSS program.
Qualification(s): Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year, and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. ACCESS AWARD.
Amount: 2 awards of $3,500

Interhall Council Entrance Scholarship [E0636]
Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.

Donor(s): Interhall Council
Qualification(s): Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability.
Amount: 3 awards of $1,250

John Embry Family Scholarship [E4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.

Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $9,600 (payable in 8 payments of $1,200)

Kenneth O. Hammill-Blount Canada Scholarship [E4356]
Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government’s OSOTF program. Selection will be based on greatest financial need from the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who submitted an application for the President’s, Lincoln Alexander's or Pamela Wallin's Chancellor's Scholarships should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) by April 15. ACCESS AWARD.

Donor(s): The Blount Foundation, Inc. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Entering students who have applied for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships who are interviewed, but not successful in the competition with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $9,600 (payable in 8 payments of $1,200)

Landoni Athletic Scholarship [E4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Students must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, but lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD.

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,000

Norman L. Gibbins Microbiology Scholarship [E4392]
Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government's OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.

Donor(s): Family, friends and colleagues of Norman Gibbins with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students entering the Microbiology major in the B.Sc. program with a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,000
### Entrance Bursaries

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Elizabeth Maud Hunter (Shier) Bursary</strong> [E3575]</td>
<td>This award was created to assist first year students in obtaining a post secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards. <strong>ACCESS AWARD</strong></td>
<td>3 awards of up to $4,500</td>
</tr>
<tr>
<td><strong>First Year Student Residence Bursary</strong> [E3066]</td>
<td>These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15. <strong>Donor(s):</strong> Student Housing Services <strong>Qualification(s):</strong> Students entering any degree program with demonstrated financial need.</td>
<td>5 awards of $500</td>
</tr>
<tr>
<td><strong>Fred Hindle Bursary</strong> [E3500]</td>
<td>Awarded in memory of Fred Hindle, O.A.C.’38, a long-time generous supporter of his Alma Mater, who at the time of his death, wanted future students to have the same opportunity for an education as he had received. This bursary is awarded with the assistance of the Ontario government’s OSOTF program. This bursary is dependent on continued demonstration of financial need and successful completion of study to advance into the next year. Students should complete the online Financial Need Assessment Form (N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD <strong>Donor(s):</strong> W. Roy Hindle and family with matching funding through the Ontario Student Opportunities Trust Fund <strong>Qualification(s):</strong> Entering O.A.C. degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTE award (see General Statement on Awards).</td>
<td>1 award of $6,000 (payable over 4 years)</td>
</tr>
<tr>
<td><strong>Harvey Graham Bursary</strong> [E3030]</td>
<td>Provided by Harvey Graham (O.A.C. ’39), Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. <strong>Donor(s):</strong> Harvey Graham, O.A.C. ’39 <strong>Qualification(s):</strong> Student who has demonstrated financial need with preference given to a student who comes from a working farm. Students graduating from Lindsay C. V. I., Fenelon Falls Secondary School , or I. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student's home township.</td>
<td>1 award of $1,200</td>
</tr>
<tr>
<td><strong>International Student Entrance Bursaries</strong> [E3043]</td>
<td>In support of the University’s strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar’s Entrance Award Application to Student Financial Services. <strong>Donor(s):</strong> University of Guelph <strong>Qualification(s):</strong> Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.</td>
<td>Several awards ranging in value from $1,000 to $3,000</td>
</tr>
</tbody>
</table>

### PA.J. Clarke Family Scholarship [E0381]
Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul’s father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F). This award is not tenable with the President’s Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

**Donor(s):** Paul and Aileen Clarke

**Qualification(s):** Students with a minimum 80% average with a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm.

**Amount:** 1 award of $12,000 (payable over 4 years)

### Robert C. Skipper Scholarship [E0485]
Established by Robert C. Skipper, Diploma in Agriculture 1948 and B.S.A. 1951. Selection will be based on academic standing, participation in extra-curricular activities and involvement in primary production and/or rural community activities. Financial need may also be considered. Apply to Student Financial Services by April 15 with a one-page summary outlining activities and by completing the online Financial Need Assessment Form for Entrance Awards (E.N.A.F).

**Donor(s):** Mr. Robert C. Skipper

**Qualification(s):** Students entering a degree program in O.A.C. that have graduated with a Diploma in Agriculture or Horticulture from the University of Guelph’s Kemptville or Ridgetown campuses.

**Amount:** 1 award of $1,000

### Rol-Land Farms Scholarships [E4519]
Established by Rol-Land Farms, with the assistance of the Ontario government’s OSOTF program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. **ACCESS AWARD**

**Donor(s):** Rol-Land Farms with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students entering a degree program with demonstrated financial need and a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTE award (see General Statements on Awards).

**Amount:** 13 awards of $2,000

### Spitzig Entrance Scholarship in Economics [E4543]
A graduate (1986) of the B.A. Economics program has established these scholarships with the assistance of the Ontario government’s OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. **ACCESS AWARD**

**Donor(s):** Anonymous with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $4,500

### W. F. Mitchell Athletic Scholarship [E4550]
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. **ACCESS AWARD**

**Donor(s):** The Mitchell Family with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350
Registrar’s Entrance Bursaries [E0384]

Established by the University of Guelph to support entering undergraduate students with substantial demonstrated financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Admission Package. (This will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Bursary, but can be held with all other entrance awards.

Donor(s): University of Guelph
Qualification(s): Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.
Amount: 500 awards of $2,000

Robert Arthur Stewart Bursaries [E3272]

Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

Donor(s): The Estate of Mrs. H. Stewart
Qualification(s): Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.
Amount: 12 awards of $500

University of Guelph Accessibility Bursaries [E3038]

Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar’s Entrance Bursary, but can be held with all other Entrance Awards.

Donor(s): University of Guelph
Qualification(s): Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.
Amount: 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

In-course Scholarships

1961-1964 Redmen Football Scholarships [I0770]

Made possible by the generous contributions of members of the 1961-1964 Redmen Football team. The recipient(s) will be selected based upon athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Dr. Robert Keith (o/1961-1964 Football Committee)
Qualification(s): Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [I0769]

Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Men’s Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

Al Singleton Hockey Scholarships [I0687]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [I0663]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Allen Keele
Qualification(s): In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $1,350

Bill Taylor Memorial Scholarship [I0280]

Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.

Donor(s): AMF Canada Ltd.
Qualification(s): Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or collegiate athletics.
Amount: 1 award of $900

Blackburn Scholarship [I0404]

In commemoration of the 125th Anniversary of the Ontario Agricultural College, Dr. D.J. Blackburn, a retired faculty member of the former Rural Extension Studies program and former Director of the Associate Diploma Program has established this scholarship. Apply by letter, citing athletic contributions, to the O.A.C. Awards Committee by May 15.

Donor(s): D.J. Blackburn
Qualification(s): O.A.C. degree or diploma student who has participated in intercollegiate athletics and maintained a minimum cumulative average of 70% while registered at Guelph. Athletic excellence and leadership will be used to determine the recipient.
Amount: 1 award of $500

Bob & Joyce Brooks Football Scholarships [I0691]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Mrs. Joyce Brooks
Qualification(s): Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $750 to $3,500

Canadian Heritage Garden Foundation Scholarship [I0551]

The Canadian Heritage Garden Foundation provides this scholarship to a student registered in Landscape Architecture that has demonstrated creativity and excellence in planting design. Examples might include heritage, residential, ecological, park and designs which explore pest control issues. Preference will be given to students with an interest in roses. Application is not required.

Donor(s): The Canadian Heritage Garden Foundation
Qualification(s): Students registered in Landscape Architecture who have completed 10.5 credits.
Amount: 1 award of $1,000
Canadian Society of Landscape Architects Prize - B.L.A. [C0136]
Application is not required.

**Donor(s):** The Canadian Society of Landscape Architects  
**Qualification(s):** Student graduating from the Bachelor of Landscape Architecture program who has maintained a high academic standing and contributed to the School and the profession.  
**Amount:** 1 award of $500

CFRU Volunteer Award [I0215]
Apply to the CFRU Board of Governors by April 30.

**Donor(s):** Station Manager, CFRU  
**Qualification(s):** Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU.  
**Amount:** 2 awards of $250

Charles McGowan Memorial Prize [C0187]
Established in memory of the late Lieutenant Charles McGowan. Application is not required.

**Donor(s):** Charles McGowan Memorial Fund  
**Qualification(s):** Outstanding graduating student in an O.A.C. degree program.  
**Amount:** 1 award of $200

Class of ’51 O.A.C. Leadership Prizes [C0063]
Established by Year ’51 O.A.C., on the occasion of its 45th anniversary. At the discretion of the O.A.C. Awards Committee students may be selected before graduation. Application is not required.

**Donor(s):** Year ’51 O.A.C.  
**Qualification(s):** Students graduating from the degree program in a major in an O.A.C. department who have a 70% standing in the final year of study and who have demonstrated leadership in the College or University extracurricular activities.  
**Amount:** 5 awards of $2,000

Class of ’67 O.A.C. Centennial Scholarship [I0067]
Apply by May 15 to the O.A.C. Awards Office with a letter outlining participation in extracurricular activities in all branches of college life. Awarded in the fall semester.

**Donor(s):** Class of O.A.C. ’67  
**Qualification(s):** Student majoring in an O.A.C. department who through activity in all branches of college life as well as scholastic achievement has made an outstanding contribution to the University.  
**Amount:** 1 award of $2,000

Class of 1970 Scholarship [I0424]
Established by the Silver Anniversary celebrants to commemorate the 25th anniversary of the University Class of 1970. This award rotates among all six colleges on the main campus. The appropriate College Award Committee selects the candidate each Fall semester and the candidate is announced each October. Application is not required.

**Donor(s):** Class 1970: 25th Reunion Gift  
**Qualification(s):** Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’Honours List.  
**Amount:** 1 award of $900

Clayton and Dorothy Switzer Scholarships [I0276]
Apply by May 15 to the OAC Dean’s Office (Awards) with a letter outlining how you have demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal. Awarded in the fall semester.

**Donor(s):** Clayton and Dorothy Switzer  
**Qualification(s):** Students registered in a degree program offered by O.A.C. with a minimum of 10.0 credits completed, at least a 70% cumulative average and has demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal.  
**Amount:** 1 award of $2,000

Coach Rudy Florio Football Scholarship [I0737]
Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Mr. Rudy Florio  
**Qualification(s):** Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.  
**Amount:** 1 award of $3,500

David F. Boyes Agriculture Scholarship [I0031]
Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application is not required.

**Donor(s):** The Apiculture Club  
**Qualification(s):** Student registered in the Fall semester who achieves high academic standing in Introductory Apiculture ( ENVB*2210 ) in the previous year, demonstrates an interest in apiculture and who has participated in extracurricular activities.  
**Amount:** 1 award of $150

Deans’ Scholarships [I0323]
This award was established by the Board of Governors’ in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.

**Donor(s):** Board of Governors  
**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.  
**Amount:** 150 awards of $1,000

DMG Scholarship [I0428]
Established by DMG Landscape Architects, Burnaby, B.C. Application is not required.

**Donor(s):** DMG Landscape Architects  
**Qualification(s):** B.L.A. student who has completed semester 4 with a minimum 75% cumulative average and demonstrated outstanding ability in landscape design.  
**Amount:** 1 award of $1,000

Douglas M. Robinson Memorial Prize for Excellence in Communications [I0409]
In memory of Douglas Robinson (O.A.C.’53), and in conjunction with the establishment of an innovative curriculum in agricultural science at the University of Guelph in 1995, the Innovative Farmers’ Association of Ontario and the Robinson family provide this annual prize. Apply by May 15th to the OAC Awards Office, Johnston Hall with a letter describing how these courses have helped to communicate effectively and indicate ways in which the courses have been used to contribute to success. A letter from the course instructor would also be considered. Selection will be based on demonstrated excellence in communication.

**Donor(s):** The Innovative Farmers Association of Ontario  
**Qualification(s):** Students registered in any degree program offered by OAC who have completed one or more of the following courses with a minimum grade of 75% in each course completed: EDRD*3050 Agricultural Communication; EDRD*3120 Educational Communication; EDRD*3140 Organizational Communication; EDRD*3160 International Communication; ENVB*3000 Nature Interpretation.  
**Amount:** 1 award of $1,000

Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [I0095]
Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

**Donor(s):** Various Donors  
**Qualification(s):** Current member of the Varsity Cross/Country or Track and Field Team, who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.  
**Amount:** 1 award of $1,350

Dr. R. J. Hilton Memorial Scholarship [I0678]
Established to honour the accomplishments of Dr. Hilton as the Chair, Horticulture Science, University of Guelph, first Director of the Arboretum and President/Chair of the Royal Botanical Gardens. Selection will be based on the highest cumulative average, demonstrated involvement in horticulture activities and involvement in academic club activities. Summer related work experience will also be considered. Preference will be given to students registered in B.Sc.(Agr.) CHATS and B.Sc. Plant Science. Apply by May 15 to the O.A.C. Awards Office with a letter outlining the plant agriculture course(s) and /or involvement in horticulture activities and summer related work experience or information about involvement in academic club activities.

**Donor(s):** Robert E. Hilton  
**Qualification(s):** Students registered in any program offered by O.A.C. who have completed a minimum 8.0 credits with a minimum 70% cumulative average.  
**Amount:** 1 award of $1,000
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Durante Kreuk Scholarship</strong> [I0675]</td>
<td>Students registered in the B.L.A. program who have completed a minimum of 14.0 credits and students in the M.L.A. program who are entering the 3rd semester.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Elaine Scott-Thomas Track and Field Scholarship</strong> [I0706]</td>
<td>Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td><strong>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship</strong> [I0627]</td>
<td>In-course student-athlete who is a current member of a varsity swim team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Various awards of $750 to $3,500</td>
</tr>
<tr>
<td><strong>Football Endowment Fund (FEF) Scholarship</strong> [I0644]</td>
<td>In-course student-athlete who is a current member of the Men's football team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Various awards of $750 to $3,500</td>
</tr>
<tr>
<td><strong>Garden Club of Toronto Scholarship</strong> [I0109]</td>
<td>Student who has completed semester 6 of the program in Landscape Architecture. The recipient will have high academic standing and exhibit a strong interest in ornamental plant materials.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>George A. Gray O.A.C. ‘51 Varsity Scholarships</strong> [I0487]</td>
<td>In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>2 awards of $1,250</td>
</tr>
<tr>
<td><strong>Gryphon Athletic Scholarships</strong> [I0631]</td>
<td>In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>2 awards of a Silver medal each</td>
</tr>
<tr>
<td><strong>Helen Kippax Memorial Scholarship</strong> [I0657]</td>
<td>Students registered in the BLA or MLA program with a minimum cumulative average of 75%.</td>
<td>1 award of $800</td>
</tr>
<tr>
<td><strong>Howard B. Dunington-Grubb Scholarships</strong> [I0092]</td>
<td>Full-time International students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%.</td>
<td>2 awards of $2,000</td>
</tr>
<tr>
<td><strong>International Undergraduate Scholarship</strong> [I0577]</td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities.</td>
<td>Application is not required.</td>
</tr>
<tr>
<td><strong>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews</strong> [I0677]</td>
<td>In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year.</td>
<td>1 award of $3,500</td>
</tr>
<tr>
<td><strong>Gerd and Christel Baldauf Men’s Basketball Scholarship</strong> [I0639]</td>
<td>Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.</td>
<td>2 awards of a Silver medal each</td>
</tr>
<tr>
<td><strong>Governor General’s Medal</strong> [C0044]</td>
<td>Recipients will be selected based on demonstrated leadership qualities.</td>
<td>Application is not required.</td>
</tr>
<tr>
<td><strong>Helen Kippax Memorial Scholarship</strong> [I0657]</td>
<td>Established by the Office of the Governor General of Canada. Application is not required.</td>
<td></td>
</tr>
<tr>
<td><strong>Ruth Kippax Stedman Estate</strong></td>
<td>Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td></td>
</tr>
<tr>
<td><strong>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship</strong> [I0627]</td>
<td>Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td></td>
</tr>
<tr>
<td><strong>Football Endowment Fund (FEF) Scholarship</strong> [I0644]</td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td></td>
</tr>
<tr>
<td><strong>Garden Club of Toronto Scholarship</strong> [I0109]</td>
<td>Apply with a one-page summary indicating a strong interest in ornamental plant materials to the School of Landscape Architecture by May 15.</td>
<td></td>
</tr>
<tr>
<td><strong>George A. Gray O.A.C. ‘51 Varsity Scholarships</strong> [I0487]</td>
<td>Established in memory of George Gray, O.A.C. ‘51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.</td>
<td></td>
</tr>
<tr>
<td><strong>Helen Kippax Memorial Scholarship</strong> [I0657]</td>
<td>Selection will be based on level of quality of participation in community service and involvement in professional activities. Preference will be given to a female student. Apply by May 15 to the OAC Awards Office with a letter outlining community service and professional activities.</td>
<td></td>
</tr>
<tr>
<td><strong>International Undergraduate Scholarship</strong> [I0577]</td>
<td>Established through a student referendum approved by the undergraduate student body, to recognize international students’ academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University and two academic and/or professional references. This award can only be held once by the student.</td>
<td></td>
</tr>
<tr>
<td><strong>George A. Gray O.A.C. ‘51 Varsity Scholarships</strong> [I0487]</td>
<td>Established in memory of George Gray, O.A.C. ‘51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.</td>
<td></td>
</tr>
</tbody>
</table>
### Jack and Lillian MacDonald Scholarship [E0379]
Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald  
**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).  
**Amount:** 1 award of $900

### John Burton Scholarship [10642]
Established by Dr. John Burton, BSA 1962, a former faculty member in the Department of Animal and Poultry Science. Selection will be based on involvement with and contribution to the horse industry, future career aspirations in the horse industry sector and participation in community activities. Preference will be given to student who have demonstrated leadership ability within the student body. Apply by May 15 to the OAC Awards Office with a letter, of no more than two-pages, outlining involvement with and contributions to the horse industry, career aspirations, and extracurricular involvements. Awarded in the fall semester.

**Donor(s):** Dr. John Burton  
**Qualification(s):** Students registered in any program offered by the OAC who have completed between 10.0 and 12.0 credits with a minimum 70% average  
**Amount:** 1 award of $1,000

### John Eccles Scholarship [10093]
Apply to Student Financial Services, by May 15, with a letter highlighting leadership abilities through participation on residence life. Providing a reference letter would be an asset.

**Donor(s):** Student Housing Services  
**Qualification(s):** Full-time student registered in semester 2, 3, 4, 5 or 6 and living in residence in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.  
**Amount:** 1 award of $600

### Kelly Bertrand Cross Country Scholarship [10684]
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand  
**Qualification(s):** Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.  
**Amount:** 1 award of $2,000

### Kenneth W. Hammond Prize [10045]
The evaluation of the student will be based on the final essay in the 'Environmental Perspectives and Human Choice: 5000 Days' course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

**Donor(s):** Kenneth W. Hammond  
**Qualification(s):** Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.  
**Amount:** 1 award of $1,000

### Kevin Durie Memorial Scholarship [10653]
Established in memory of Kevin Durie, BA '93, by his family and friends. Selection will be based on demonstration of outstanding service as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

**Donor(s):** Christine Blake-Durie  
**Qualification(s):** Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.  
**Amount:** 1 award of $1,000

### Kip Hunter Prize [10139]
For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

**Donor(s):** Faculty, students and staff of the Philosophy Department  
**Qualification(s):** Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.  
**Amount:** 1 Book prize

### Lambda Foundation Scholarship in LBGT Studies [10591]
This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a given student only once. Projects must have been completed or research proposals accepted within the past calendar year. Apply to the Dean of Arts by December 15th including the research proposal or completed project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.

**Donor(s):** Lambda Foundation and other donors  
**Qualification(s):** Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.  
**Amount:** 1 award of $1,000

### Landscape Architecture Alumni Scholarships [10329]
Provided by the Alumni of the School of Landscape Architecture. Students, faculty or alumni may nominate eligible students to the School of Landscape Architecture by October 30.

**Donor(s):** Landscape Architecture Alumni  
**Qualification(s):** Students enrolled in the B.L.A. program who have just completed either semester 2 or 6. The recipient(s) will be selected on the basis of academic performance and participation and leadership in extracurricular activities.  
**Amount:** 1 award of $1,000

### Larry Pearson Men’s Volleyball Athletic Scholarships [10618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson  
**Qualification(s):** In-course student-athlete who is a current member of the men's varsity volleyball team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** several awards up to $3,500
Latifpoor-Keparoutis Family Varsity SwimTeam Scholarship [I0732]

Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Maryam Latifpoor-Keparoutis
Qualification(s): Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

Amount: 1 award of $1,200

Leonard Conolly Exchange Student Scholarship [I0446]

Established by students, faculty, staff and friends to honour Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

Donor(s): Students, staff, faculty and friends of Dr. Leonard Conolly
Qualification(s): Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).

Amount: 1 award of $1,200

Men's Basketball Scholarships [I0638]

Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Anonymous (Alumni)
Qualification(s): In-course student-athlete who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.

Amount: 4 awards of $2,500

Men's Soccer Alumni Scholarship [I0771]

Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)
Qualification(s): Current member of the Gryphon Men’s Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

Amount: several awards ranging in value from $1,000 to $3,500

Nathan Max Goldman Choir Scholarships [I0774]

Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and/or the Chamber Choir. One award will be available to a student in each choir, and will be given to the candidate who best combines high vocal achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required as a recommendation by Choir Director will be made to the SOFAM Awards Committee.

Donor(s): Mrs. Anne Goldman and the family of Nathan Max Goldman
Qualification(s): Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and/or the Chamber Choir and have been a member of the University of Guelph Choirs for at least two years.

Amount: 2 awards of $1,000

O.A.C. ’55 Scholarships [I0064]

Provided by the class of O.A.C. ’55. Recipients will have made an outstanding contribution to College life through academic proficiency and participation in extracurricular activities and can be considered to have done the most for the College, for fellow students and in their personal development. Apply by May 15 to the OAC Dean’s Office (Awards) with a letter outlining your participation in Class/College/University activities. Awarded in the fall semester.

Donor(s): O.A.C. ’55
Qualification(s): Students registered in any O.A.C. degree program or students registered in the B.ENG. program that have completed a minimum of 10.0 with at least a 70% cumulative average.

Amount: 1 award of $2,000

O.A.C. Centennial Graduate Prizes [C0209]

The Ontario Agricultural College celebrated its 100th Anniversary in 1974. Many organizations and companies associated with the agricultural industry provided funds in conjunction with the Centennial activities. Funds have been established in perpetuity as a permanent commemoration of the Centennial of the College. Apply to OAC Awards Office by April 1 with a letter outlining extracurricular activities. Selection will be based on academic achievement in seminars 7 and 8, as well as participation in extracurricular activities throughout the student's university career.

Donor(s): Dean, O.A.C.
Qualification(s): Students graduating from a degree program administered by the Ontario Agricultural College and who plan to pursue graduate studies in any department or school of the Ontario Agricultural College in the year of baccalaureate graduation. The fellowship will be based on academic achievement in seminars 7 and 8, as well as participation in extracurricular activities throughout the student's university career.

Amount: 1 award of $2,200

O.A.C. Students’ Federation Medal [C0217]

Application is not required.

Donor(s): O.A.C.
Qualification(s): Graduating student in an undergraduate degree program in a major in an O.A.C. department who has been an outstanding leader in student activities at the College level throughout his or her University career.

Amount: 1 award of a Medal

OAC “BLA Class of '82” Peer Mentor Scholarship [I0698]

Established to recognize and promote mentoring and leadership of students in Landscape Architecture. Preference will be given to students who have mentored other students in LARC*2020 Design Studio. No application is necessary.

Donor(s): OAC “BLA Class of ’82”
Qualification(s): Students registered in the Bachelor of Landscape Architecture program who have completed at least 5.0 credits with a minimum 70% cumulative average and who have exhibited leadership abilities in the area of counseling, sponsoring and acting as a role model to others in the program (being a mentor).

Amount: 1 award of $1,000

Ontario Association of Landscape Architects Scholarship [I0219]

Selection will be made on academic achievement, performance in design studio and leadership qualities. Application is not required.

Donor(s): The Ontario Association of Landscape Architects
Qualification(s): Student who has completed semester 5 of the B.L.A. program.

Amount: 1 award of $500
IX. Scholarships and Other Awards, Bachelor of Landscape Architecture

Priscilla and Stanford Reid Trust Prize [I0597]
Established in honour the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written about the history of Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.

Donor(s): Priscilla and Stanford Reid Trust Fund
Qualification(s): Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.
Amount: 1 award of $500

Professional Staff Association Scholarship [I0628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 by sending an email to awards@registrar.uoguelph.ca and include the name of the family member of the Professional/Managerial Group of the University, or retired Professional/Managerial Group of the University of Guelph. This award may be held more than once, however, not in consecutive years. Preference will be given to students of current or retired P.S.A. members.

Donor(s): Professional Staff Association
Qualification(s): Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University, and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.
Amount: 1 award of $1,500

Professor Victor Matthews Track and Field Scholarships [I0707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: up to 10 $500 each

Rachel Cliff Scholarship [I0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Ronald & Nancy Cliff
Qualification(s): Current member of the Women’s Middle Distance Team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

Russell Athletic Scholarships [I0722]
The recipients will be selected based on demonstrated leadership qualities and contributions to the team. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): H.D. Brown Enterprises Ltd.
Qualification(s): Current members of a University of Guelph Varsity Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 4 awards of $2,500

Sprung Family Men’s Basketball Scholarship [I0672]
Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. Timothy Sprung
Qualification(s): In-course student-athlete who is a current member of the Men’s basketball team and has achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $3,500

Stantec Landscape Architectural Scholarship [I0621]
Established by Stantec Consulting Ltd., a major employer of numerous professional consulting disciplines. Selection will be based on a high level of well-rounded proficiency in design, construction and professional practice knowledge based on recent course work. Application is not required.

Donor(s): Stantec Consulting Ltd.
Qualification(s): Students enrolled in the Bachelor of Landscape Architecture program who have completed 14 credits.
Amount: 1 award of $1,250

Stephanie Wilken Volunteer Scholarship [I0449]
Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to Student Financial Services with letter indicating the kind and extent of volunteer activities at the Wellness Centre by October 1. Selection committee is the Senate Committee on Awards on the recommendation of the Student Wellness Educator at the Wellness Centre.

Donor(s): Bev and Darlene Wilken
Qualification(s): Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre.
Amount: 1 award of $1,000

Thomas H. Peters Scholarship [I0233]
Application is not required.

Donor(s): Friends and associates of Thomas H. Peters
Qualification(s): Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.
Amount: 1 award of $250

Tom Mooney Scholarship [I0709]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Current member of the varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $1,000 to $3,500

Toronto District Beekeeper’s Association Scholarship [I0285]
A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application is not required.

Donor(s): Mr. Jack Robinson
Qualification(s): The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.
Amount: 1 award of $500

United Steelworkers Local 4120 Scholarship [I0293]
A scholarship is offered by United Steelworkers Local 4120 in memory of Thomas H. Peters. Application is not required.

Donor(s): United Steelworkers LU4120
Qualification(s): Student who is a member of the Steelworkers Union who has completed 14 credits and has a minimum 70% cumulative average.
Amount: 1 award of $1,000

Last Revision: Oct. 19, 2012
### University of Guelph Alumni Legacy Scholarship [I0735]
Funded through donations made to the University of Guelph Alumni Memorial Fund in memory of deceased alumni. The recipient will be selected based on academic achievement and volunteer contributions to the University of Guelph community. Apply to Student Financial Services by May 15 with a cover letter indicating name, degree, year of graduation of alumna/alumnus relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.

**Donor(s):** Various donors c/o University of Guelph Alumni Association Memorial Fund

**Qualification(s):** Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with both a minimum cumulative average of 75% and demonstrated volunteer leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumna/us of the University of Guelph or its founding colleges.

**Amount:** 1 award of $1,000

### Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]
Selection will be made on the basis of participation in university activities and in the student's home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

**Donor(s):** Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family

**Qualification(s):** Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.

**Amount:** 2 awards of $400

### Vera Bezeredy Memorial B.L.A. Design Scholarship [I0480]
The scholarship has been provided in memory of the first female O.D.H. graduate, Vera Bezeredy. The recipient will be the student who has demonstrated an aptitude for community design. Application is not required.

**Donor(s):** O.D.H. Graduates Association

**Qualification(s):** Landscape Architecture students who have completed a minimum of 10.0 credits in the B.L.A. program and who have a minimum 75% cumulative average.

**Amount:** 1 award of $450

### Victor Chanasyk Medal [C0265]
The decision will be based on the recommendation of the faculty in the School of Landscape Architecture. Application is not required.

**Donor(s):** Victor Chanasyk

**Qualification(s):** Graduating Bachelor of Landscape Architecture student who, in the view of the faculty, is deemed to be the most promising professional practitioner.

**Amount:** 1 award of a Medal

### W.C. Winegard Medal [C0311]
The W.C. Winegard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** The Board of Governors of the University

**Qualification(s):** Graduating student who excels both academically and in extracurricular activities.

**Amount:** 1 award of a Gold medal

### W.N. Vaughan Medal [C0299]
Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** Friends of Walter N. Vaughan

**Qualification(s):** Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.

**Amount:** 1 award of a Medal

### William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships [I0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mrs. Irene McEwen

**Qualification(s):** Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

### William P. Weber Football Scholarship [I0634]
Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. William P. Weber

**Qualification(s):** In-course student-athlete who is a current member of the Men's Football team and achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $2,500

### In-course Scholarships with Financial Need

#### 3M Canada Scholarships [I0564]
Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** 3M Canada Company

**Qualification(s):** Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.

**Amount:** various award of up to $4,000

#### Brian Kenneth Howard Memorial Scholarship [I4548]
Established by Kenneth and Irene Howard in memory of their son, Brian Kenneth Howard. Awarded to a student assessed as having financial need with a preference given to students from York, Durham or Simcoe counties. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Kenneth and Irene Howard with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Student registered in any degree program with a minimum 75.0% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $2,700

#### City of Guelph 175th Anniversary Scholarship [I0515]
Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.

**Donor(s):** The Guelph Community Foundation

**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 70.0% cumulative average, demonstrated volunteer leadership on campus and/or in the community and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian citizens or permanent residents at the time of application.

**Amount:** 1 award of $2,000
Eleanor Morgan & Bill Archibald Scholarships [14540]
The family of Eleanor and Bill Archibald, with the assistance of the Ontario government's OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD.

Donor(s): The Family of Eleanor & Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, have demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).

Amount: 1 award of $1,000

Erin Demers Memorial Scholarship [10406]
The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.

Donor(s): Family and friends of Erin Katrina Demers

Qualification(s): Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.

Amount: 1 award of $1,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [14546]
Established by Ernest Kendall, O.A.C. BSA 1932, with the assistance of the Ontario government's OTSS program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award, you must list it on your N.A.F. Selection will be made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD

Donor(s): Ernest Kendall with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students with demonstrated financial need who are members of the women's varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,350

Euclid-Hitachi Scholarships [14517]
Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,500

Graham Family Incentive Scholarship [14506]
Provided by Harvey Graham (O.A.C. ’39) with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): Harvey Graham O.A.C., ’39 with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $4,000

John Embry Family Scholarship [14549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program

Qualification(s): Student-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 2 awards of $3,500

Landoni Athletic Scholarship [14405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program

Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,000

Nora Spence Memorial Scholarship [14394]
This scholarship was created by George and Jane Spence in memory of their daughter Nora Spence, O.A.C. BSc.’06 with the aid of the Ontario government’s OTSS program. Selection will be based on high academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): Jane and George Spence with matching funding through the Ontario Trust for Student Support program

Qualification(s): BSc students registered in a major offered by O.A.C. who have a minimum cumulative average of 75% and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,000

Residence Life Staff Scholarship [10697]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.

Donor(s): Student Housing Services

Qualification(s): Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.

Amount: 2 awards of $500
## Returning Student Residence Scholarship [I0696]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is award is conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.

**Donor(s):** Student Housing Services  
**Qualification(s):** Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.

**Amount:** 3 awards of $500

## Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [E4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS AWARD.

**Donor(s):** Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Entering student athlete who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** various awards of up to $3,500

## University of Guelph Retiree Association Degree Scholarship [I0569]
The University of Guelph Retiree Association established this $1,500 scholarship in 2007 to acknowledge in-course student achievement. The student having the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last two semesters of full-time studies will be chosen. Apply by May 15th to Student Financial Services with a letter indicating name of and relationship to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.

**Donor(s):** University of Guelph Retirees Association (U.G.R.A.)  
**Qualification(s):** Students with a minimum 75% cumulative average registered in a degree program who are related to a retiree of the University of Guelph as child, grandchild or great grandchild.

**Amount:** 1 award of $1,500

## W. F. Mitchell Athletic Scholarship [I4550]
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** The Mitchell Family with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students who is a member of a varsity team who has achieved a minimum 70% average in the previous academic year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

## Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [I4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD

**Donor(s):** Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Current member of the women's varsity ice hockey team who is enrolled in an undergraduate program with a minimum 70% average or equivalent during the previous academic year as a student-athlete who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** various awards of up to $3,500

## Tara Lynn Giuliani Memorial Scholarship [I0375]
In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7.

**Donor(s):** The Giuliani Family  
**Qualification(s):** Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.

**Amount:** 1 varying amounts

## In-course Bursaries

### Bette Stephenson Accessibility Bursary [I3054]
In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student's advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

**Donor(s):** University of Guelph  
**Qualification(s):** Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.

**Amount:** 3 awards to a maximum of $1,500

### Birks Family Foundation Bursary [I3002]
Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** Birks Family Foundation  
**Qualification(s):** Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures.

**Amount:** 1 award of $1,000
Brinson Partners Inc. Bursaries [I3526]

Brinson Partners Inc., with the assistance of the Ontario government's OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Burnbrae Farms Bursaries [I3525]

Established by Burnbrae Farms, with the assistance of the Ontario government's OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7. ACCESS AWARD.

Donor(s): Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Class of ’72: 25th Reunion Bursaries [I3512]

Established by the Class of ’72: 25th Reunion Fund with the assistance of the Ontario government's OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Class of ’72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $1,000

Class of O.A.C. ’33 Bursaries [I3531]

Established by the class of O.A.C. ’33 on the occasion of their 65th Anniversary, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Class of 1933 (in honour of the late Prof. W.I. Squirell) with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $500

Class of O.A.C. ’36 Bursaries [I3501]

Established by the Class of O.A.C. ’36 with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

Donor(s): Class of 1936 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): An O.A.C. degree student enrolled in any degree program who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $900

David R. Leach Memorial Bursary [I3534]

Provided in memory of David R. Leach by his family, with the assistance of the Ontario government's OSOTF program. David entered O.A.C. in 1969 as a member of O.A.C. ’73 and graduated with a B.Sc. in Agriculture in 1974. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services and a letter from CSD confirming physical disability by October 7.

Donor(s): Mrs Deborah Leach-Sartor with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate degree or diploma student who is physically disabled as determined by the Centre for students with Disabilities, has satisfactory academic standing and who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $750

Donald P. Watson Bursaries in Horticultural Science [I4501]

Established by the estate of Donald P. Watson, O.A.C.’34, with the assistance of the Ontario government's OSOTF program. Preference will be given to students in BLA and the CHATS major in the BSc(Agr) degree program. Apply to Student Financial Services by October 7 and include a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): The estate of Dr. Donald P. Watson with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in BLA program, the BSc(Env) program, the Agriculture, CHATS, Organic Agriculture majors of the BSc(Agr) program, or the Plant Science major of the BSc program who have completed a minimum of 10.0 credits and who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $2,000

Elizabeth Burton Bursaries [I3503]

Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: Several awards of varying amounts

Gryphon Investment Council Bursaries [I3513]

Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500
### Guelph Compassionate Health and Dental Bursary [I3061]

This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Student Health and Dental Plan Reserve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several varies to a maximum $1,500</td>
</tr>
</tbody>
</table>

### Guelph Student Assistance ACCESS Bursaries [I3556]

These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government’s OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards of varying amounts up to $1,000</td>
</tr>
</tbody>
</table>

### Guelph Student Assistance Program [I3056]

These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Undergraduate Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Full-time undergraduate students registered in any degree program with demonstrated financial need.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards of varying amounts up to $1,000</td>
</tr>
</tbody>
</table>

### Gwen Karr Memorial Bursary [I3010]

Mr. T.K.C. Karr, O.A.C. ‘32, has provided an endowment fund to assist students in a degree or diploma program of the University of Guelph. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mr. T.K.C. Karr, O.A.C. ‘32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>O.A.C. students with demonstrated financial need.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several varies</td>
</tr>
</tbody>
</table>

### Helen Mahon Memorial Bursary [I3063]

Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Family and Friends of Helen Mahon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students registered in any program who come from a family where one parent is deceased.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $500</td>
</tr>
</tbody>
</table>

### Howard and Myrtle Rogers Bursaries [I3537]

Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>10 up to $2,000</td>
</tr>
</tbody>
</table>

### International Emergency Medical Aid Assistance [I3059]

The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>University of Guelph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards of varying amounts</td>
</tr>
</tbody>
</table>

### International Student Bursaries [I3009]

Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mrs. Norma L. Valeriote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several of varying amounts</td>
</tr>
</tbody>
</table>

### Irvine and Grace Black Memorial Bursary [I3051]

Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women’s Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women’s Institute by October 7.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Family and friends of Irvine and Grace Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women’s Institute.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $500</td>
</tr>
</tbody>
</table>

### Landscape Architecture ACCESS Bursaries [I4531]

Established by faculty and students in Landscape Architecture, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Faculty members and students in Landscape Architecture with matching funding through the Ontario Student Opportunities Trust Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students registered in the School of Landscape Architecture with demonstrated financial need and a minimum B average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $500</td>
</tr>
</tbody>
</table>
IX. Scholarships and Other Awards, Bachelor of Landscape Architecture

Mary I. Whitelock Bursaries [I3524]
Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government’s OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 13 awards of $2,000

Murray McEwen OAC Safe Water Bursary [I3573]
Selection will be based on the highest financial need. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form and a letter indicating which of the listed courses have been completed. ACCESS AWARD.

Donor(s): Murray McEwen with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any major offered by OAC who have completed any two of the following courses: ENVS*3150 (Aquatic Systems), ENVS*3190 (Environmental Water Chemistry), ENVS*3290 (Waterborne Disease Ecology), ENVS*3080 (Soil and Water Conservation) and ENVS*3060 (Groundwater) with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $1,000

Murray P. And Florence L. Hannah Bursaries [I3571]
Preference will be given to students from the County of Northumberland. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Estate of Florence Hannah with matching funding through the Ontario Trust for Student Support program
Qualification(s): OAC students registered in the BSc(Agr) or the BSc(Env) program who have completed a minimum of 4.0 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $1,000

O.A.C. ’58 Lloyd Minshall Bursaries [I3529]
Established by O.A.C. ’58 Alumni, with the assistance of the Ontario government’s OSOTF program, to recognize the many contributions of Lloyd Minshall to his classmates and to O.A.C. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): O.A.C. ’58 Alumni with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students with demonstrated financial need in semesters 5, 6, 7 or 8. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 4 awards of $1,800

O.A.C. ’55 Access Bursaries [I3517]
Provided by the class of O.A.C. ’55 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): O.A.C. Class of ’55 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students at any semester level in an O.A.C. degree program or students enrolled in the B.ENG. program with demonstrated financial need and a 60% minimum cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statement on Awards).
Amount: 6 awards of $500

O.A.C. ’57 Bursaries [I3518]
Provided by the Class of O.A.C. ’57 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): O.A.C. ’57 and the O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 5 awards of $1,000

O.A.C. Alumni Foundation Access Bursaries [I3533]
Provided by the O.A.C. Alumni Foundation, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $500

Ontario Co-operatives R.P. Forshaw Bursary [I1013]
The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.

Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw
Qualification(s): Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.
Amount: 1 award of $400

Ontario Grape Growers Bursary [I3033]
Offered by the Ontario Grape Growers Action Committee. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): The Ontario Grape Growers Action Committee
Qualification(s): Students with good academic standing in semesters 3 to 6 of a degree program or semesters 3 to 4 of a diploma program administered by O.A.C., and demonstrated need of financial assistance.
Amount: Several of various amounts

Reid’s Heritage Homes Bursaries in Landscape Architecture [I3521]
Established by Reid’s Heritage Homes with the assistance of the Ontario government’s OSOTF program to assist students continue their studies as full-time students, Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Reid's Heritage Homes Ltd. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students registered in the B.L.A. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,000

Robert Auger Humanitarian Bursary [I3058]
This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.

Donor(s): Office of Registrarial Services
Qualification(s): Students registered in a degree program.
Amount: Several grocery vouchers or book vouchers

Last Revision: Oct. 19, 2012
2012-2013 Undergraduate Calendar
**Scotiabank Bursaries [I3532]**
Established by Scotiabank, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

| Donor(s): | Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s): | Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount: | 2 awards of $1,500 |

**Shirley Endean Bursaries [I3570]**
These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

| Donor(s): | Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards. |
| Amount: | Several awards of varying amounts |

**T.K. Warley Bursaries [I3510]**
Established by O.A.C. Alumni Association, with the assistance of the Ontario government's OSOTF program, to recognize Professor T.K. Warley’s significant contribution to the O.A.C. Alumni Foundation and to students through teaching and promotion/development of “Experience Agriculture”. A degree student may receive this bursary twice. Apply by letter outlining extracurricular involvement and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

| Donor(s): | O.A.C. Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s): | Students with demonstrated financial need who are in semester 5 to 8 of any degree program within O.A.C. A minimum 65% is required, as is participation in student activities, governance, and/or college affairs. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards. |
| Amount: | 2 awards of $1,000 |

**University of Guelph Child Care Bursaries [I3053]**
In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

| Donor(s): | University of Guelph |
| Qualification(s): | Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need. |
| Amount: | Several awards of up to $2,000 |

**University of Guelph International Bursary [I3048]**
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

| Donor(s): | University of Guelph |
| Qualification(s): | Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits. |
| Amount: | Several varies |

**University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]**
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

| Donor(s): | University of Guelph |
| Qualification(s): | Ontario students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need. |
| Amount: | Several awards ranging in value from $100 to $4,000 |

**University of Guelph Undergraduate In-Course Bursaries (NON OSAP/TR) [I3047]**
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

| Donor(s): | University of Guelph |
| Qualification(s): | Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need. |
| Amount: | Several awards to a maximum of $500 |

**University Police Bursaries [I3019]**
The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

| Donor(s): | The University Police |
| Qualification(s): | Full-time undergraduate with demonstrated financial need. |
| Amount: | Several of various amounts |

**University Student Assistance Program [I3057]**
These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

| Donor(s): | University of Guelph |
| Qualification(s): | Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). |
| Amount: | Several awards of various amounts to a maximum of $1,000 |

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2012-2013 Undergraduate Calendar
In-course Travel Grants

A.W. Archibald Memorial Travel Grant [T4541]
Mr. A.W. Archibald, O.A.C. ’33 with matching funding through the Ontario government's OSOTF program, provide these travel grants to students who plan to travel for a semester abroad or to attend other schools outside of Canada for workshops or other academic related purposes. Apply to Student Financial Services with a letter outlining proposed travel plans and academic purpose accompanied by a letter of support from a faculty member or student advisor, and a Need-Based Travel grant application by October 7. ACCESS AWARD.

Donor(s): A.W. Archibald, O.A.C. ’33 with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Undergraduate students in any O.A.C program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: Several awards up to $1000

Aeroplan International Travel Grant [T0604]
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a "Travel Grant Need-based Application". Preference will be given to students participating in the semester abroad or academic exchange. Award is subject to the availability of Aeroplan miles and may not be available every year.

Donor(s): Aeroplan

Qualification(s): Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.

Amount: 1 or more awards of a plane ticket

Arthur D. Latornell Undergraduate Travel Grants [T0058]
An endowment fund established in memory of Arthur D. Latornell, O.A.C. ’50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.

Donor(s): The Estate of Arthur D. Latornell

Qualification(s): Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.

Amount: several up to a maximum of $1000

Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]
The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government's OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.

Donor(s): Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students currently enrolled in any O.A.C program with a minimum of 70% cumulative average and must have travel related to their studies to be considered. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. Application must be made a maximum of two semesters prior to the commencement of the travel program.

Amount: Several awards of up to $15,000

H.C. Mason Travel Scholarships [T0598]
In memory of the late H.C. Mason, a travel fund, within the O.A.C. Teaching Trust, for O.A.C. students has been established by F.W. Bray of Hamilton. Apply to the O.A.C. Awards Office by May 15 with a letter outlining intended travel and benefits to program of study. Apply by April 1st to the OAC Awards Office with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs and expected benefits. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be beneficial.

Donor(s): H.C. Mason

Qualification(s): Students registered in any undergraduate degree program of OAC who have completed a minimum 8.0 credits or students registered in the Diploma in Agriculture or Horticulture programs at Alfed, Kemptville or Ridgetown campuses or Turfgrass Diploma at the Guelph campus who have completed 6.0 credits are eligible. Students must have a 70% cumulative average and must have travel related to their studies to be considered.

Amount: Several awards of up to $750

D & G Hart Travel Grant [T0601]
Douglas H., O.A.C. 1922, and George M., O.A.C. 1927, were long time supports of O.A.C. and believed greatly in the benefits that travel provided to an individual's personal and professional growth. Apply to the O.A.C. Awards Office by May 15 with a letter outlining the intended study program/conference/or other type of travel opportunity, the reasons for choosing the travel program and the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. This award cannot be held with any other University of Guelph Travel Grant.

Donor(s): Family of Douglas and George Hart

Qualification(s): Students currently enrolled in any O.A.C program with a minimum 70% cumulative average who intend to participate in travel related to course study.

Amount: 1 award of up to awards of $750

J. Ross Cavers Study Abroad Scholarship [T0051]
O.A.C. '53 provides these scholarships in memory of J. Ross Cavers, their honorary year member, professor emeritus, and respected poultry scientist. Apply by letter outlining the intended semester abroad program, the reasons for choosing the program and the perceived value of participation along with a brief summary of related and extracurricular activities to the O.A.C. Awards Office by May 15. A letter of recommendation will also be considered as part of the application package. Application should be made a maximum of two semesters prior to participation in the intended travel program.

Donor(s): Class of O.A.C. '53

Qualification(s): Undergraduate student in O.A.C. planning to participate in a semester abroad program with a minimum 75% cumulative average. Preference will be given to a candidate who has exhibited qualities of leadership.

Amount: 2 awards of $2,000
J.D. Cunningham Travel Grant [T0605]
Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by May 15 to the O.A.C. Awards Office with a letter of no more than two pages outlining the intended study program, conference, or other type of learning opportunity. Include the reason for choosing the program and describe the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. Upon return from the travel opportunity, the student must be willing to present a report to classmates and/or faculty and/or the Ontario Food Protection Association.

Donor(s): Ontario Food Protection Association
Qualification(s): Students currently enrolled in any O.A.C. program with a minimum cumulative average of 75%. Preference will be given to students in Food Science specializing in Microbiology.
Amount: 1 award of $2,000

Jeffrey Brown Memorial Travel Grant [T4395]
Apply to Student Financial Services by October 7 with a completed University of Guelph Financial Need Assessment form and a one-page submission that describes the applicant’s free-spiritedness, inquisitiveness and creativity. A letter of recommendation from a BLA faculty member, attesting to these attributes, is also required. A student who has displayed free-spiritedness, inquisitiveness, and creativity in their study of landscape architecture in its broadest sense, as communicated in a one-page submission and as referenced in a letter of recommendation from a BLA faculty member will be selected. ACCESS AWARD.

Donor(s): Friends and family of Jeffrey Brown with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in the Bachelor of Landscape Architecture (BLA) program who have completed a minimum of 10.0 credits and have been accepted for an exchange program or international internship with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Kenneth W. Knox Undergraduate Leadership Travel Grant [T4403]
Established to honour and recognize Kenneth Knox, Kemptville ‘67, OAC ‘72, for his passionate and innovative career. Selection will be based on relevance of intended travel and benefits to program of study, demonstrated leadership contributions and financial need. Apply by October 7 to Student Financial Services with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs, expected benefits, demonstrated leadership as evidenced by participation in extracurricular activities or volunteer services, along with a completed University of Guelph Financial Need Assessment Form. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be considered. ACCESS AWARD

Donor(s): Friends and Family of Kenneth Knox with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any program offered by OAC who have demonstrated leadership contributions, have completed a minimum of 10.0 credits with a minimum 70% cumulative average and plan to participate in an experiential learning opportunity related to their field of study, such as: semester abroad, exchange program, etc. and have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $2,000

Kincardine Shippers Association Travel Grant [T0676]
Established by the members of the Kincardine Shippers Association to assist students in pursuit of their educational goals. Selection will be based on the stated travel benefits, leadership potential and financial need considered. Preference will be given to students from the Municipality of Kincardine and the Township of Huron-Kinloss. Apply with a letter of no more than two pages outlining the intended study program or type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation, along with a Need-Based Travel grant application by October 7 to Student Financial Services. A letter of recommendation will be considered as part of the application.

Donor(s): Kincardine Shippers Association
Qualification(s): Students registered in any program offered by O.A.C. with a minimum 70% cumulative average who plan to participate in travel related to course study.
Amount: 1 award of $1,000

Massey Fund Travel Scholarships [T0417]
Travel scholarships available from the Massey Fund. Not tenable with other awards that support travel costs. Apply by letter outlining the study abroad/exchange program and travel costs to the O.A.C. Dean’s Office by May 15.

Donor(s): O.A.C. Awards Committee
Qualification(s): O.A.C. undergraduate students who are participating in an approved study abroad or exchange program outside Canada. Academic standing in the last two full-time semesters or equivalent will be used to determine recipients.
Amount: 6 awards of up to $2,000 each

O.A.C.’05 Excellence Travel Grant [T0060]
In honour of the O.A.C. Class of 1905 and with the support of the O.A.C. Class of 2005. Apply to the O.A.C. Awards Office by May 15 with the submission of a letter of no longer than two pages outlining the intended study program/conference/or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant in not tenable with other University of Guelph travel grants.

Donor(s): Class of OAC 1905 and the Class of OAC 2005
Qualification(s): Student who are currently registered in an Ontario Agricultural College undergraduate degree program and wish to travel to expand their educational opportunities.
Amount: 1 award of $300

O.A.C.’47 Travel Bursaries [T3505]
Provided by O.A.C.’47 on the occasion of its 50th anniversary and with the assistance of the Ontario government’s OSOTF program. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure by October 1, for winter travel, February 1 for summer travel or June 1 for fall travel.

Donor(s): O.A.C. ’47 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students who have demonstrated financial need and who are participating in a study abroad program for academic credit at an approved institution. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: several awards of various amounts

O.A.C.’54 International Study Scholarship [T0586]
Established in memory of Beth Duncan to support students participating in an exchange program, study abroad semester, or a field trip course. Submit a letter (of not more than two pages) outlining the intended international study program, reasons for choosing the program and the anticipated benefits of participation. Letters should also include a brief summary of extracurricular and student related activities. Letters of reference will be considered. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the program.

Donor(s): Class of OAC ’54
Qualification(s): Currently registered students in O.A.C. who are Canadian citizens or permanent residents with a minimum 75% cumulative program average who intend to participate in an exchange program, semester abroad, or field trip course.
Amount: 2 awards of $1,450

OURA Innovation Travel Grant [T4393]
Established in recognition of an innovative student fee protocol put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form and include one-page description of the intended travel.

Donor(s): Ontario University Registrars’ Association (OURA) with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $350
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| **Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]** | The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government's OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD.  
**Donor(s):** The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** Several awards of varying amounts to a maximum of $1,000 |
| **Robb Travel Grants [T3028]** | These travel grants have been provided in recognition of her love of agriculture, by the estate of Martha Robb, Paris, Ontario. Apply to the Dean, O.A.C. by May 15.  
**Donor(s):** The Estate of Martha Robb  
**Qualification(s):** O.A.C. students who are attending another university on a Letter of Permission.  
**Amount:** Several awards of various amounts |
| **Roderick Long International Travel Grant [T0360]** | Offered in memory of the late Roderick Long, O.A.C.'54. Up to eighty percent of the travel costs associated with the study outside of Canada program will be covered up to a maximum of $1,000 per student. Application by letter should be made to the Dean O.A.C. by May 15, and include a description of the study abroad program.  
**Donor(s):** Mr. Roderick W. Long  
**Qualification(s):** O.A.C. undergraduate student who is studying outside of Canada on an approved program for one or more semesters  
**Amount:** Several awards of $1,000 |
| **University of Guelph Travel Scholarships [T0421]** | The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.  
**Donor(s):** University of Guelph  
**Qualification(s):** Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.  
**Amount:** Several awards up to $1,500 |
BACHELOR OF SCIENCE

Please refer to the General Statement on Awards for:

• Award Eligibility
• ACCESS Awards Eligibility
• Ontario Student Opportunity Trust Fund (OSOTF) Program
• How Awards are Paid

The University reserves the right to amend subjects to the availability of funds.

ENTRANCE SCHOLARSHIPS

1961-1964 Redmen Football Scholarships [E0770]

Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.
Amount: 8 awards of $7,000 (payable over 4 years of study).

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [E0769]

Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. A full-time study is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

Al Singleton Hockey Scholarships [E0687]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [E0663]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Allen Keele
Qualification(s): Entering student-athlete who is a member of the Varsity track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

Amos & William Lowe Memorial Scholarship [E0158]

Endowed by the late William B. Lowe of Fort Francis, Ontario. Preference will be given first to eligible students from the district of Rainey River, then from the district of Kenora or Thunder Bay, and finally from the remaining districts of Northern Ontario. Application is not required.

Donor(s): William B. Lowe and Amos Edgar Lowe
Qualification(s): Student entering any of the undergraduate degree programs of the Ontario Agricultural College.
Amount: 1 award of $1,250

December 6th Memorial Scholarship [E0005]

This scholarship, established by the Faculty Association, is awarded in memory of the fourteen women murdered in December 1989 at Ecole Polytechnique and is intended to attract women to a profession that is largely comprised of men. The recipient will be selected on the basis of academic performance. For continued eligibility beyond semester 1, the student must maintain a minimum of 70% cumulative average. Demonstrated financial need may also be considered. Application is not required.

Donor(s): University of Guelph Faculty Association
Qualification(s): Female student who is a Canadian Citizen or Permanent resident of Canada enrolled in the College of Physical and Engineering Science.
Amount: 1 award of $2,250 ($750 in each of semesters 1, 3 and 5).

Angelo and Frank Agro Undergraduate Scholarship [E0520]

These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership role(s) in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

Donor(s): The Frank Agro Estate
Qualification(s): Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4H projects.
Amount: 8 awards of $7,000 (payable over 4 years of study)

Barry Lee Scholarship for Agricultural Excellence [E0797]

Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

Donor(s): The Regional Municipality of Halton
Qualification(s): Students entering any undergraduate program offered by OAC.
Amount: 1 award of $1,000

Board of Governors’ Scholarships [E0317]

The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

Donor(s): Board of Governors
Qualification(s): Academically outstanding students entering semester 1 with the highest admission averages of the entering cohort.
Amount: 25 award of $8,000 (payable over 4 years of study)

Bob & Joyce Brooks Football Scholarships [E0691]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Mrs. Joyce Brooks
Qualification(s): Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Coach Rudy Florio Football Scholarship [E0737]

Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. Rudy Florio
Qualification(s): Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Barry Lee Scholarship for Agricultural Excellence [E0797]
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dr. C. John Small Commonwealth Scholarship [I0611]</strong></td>
<td>1 award of $3,500</td>
<td>Full-time visiting exchange students registered for at least one semester from a Commonwealth developing country who are pursuing studies or conducting research in the area of agriculture and rural development.</td>
<td>Mrs. Jean K. Small</td>
</tr>
<tr>
<td><strong>Ernest Kendall Science Entrance Scholarship</strong></td>
<td>1 award of $2,000</td>
<td>Students with high academic standing, entering an honours program in the College of Physical Science. Emphasis during selection will be given to academic achievement in high school science and mathematics. Application is not required.</td>
<td>Ernest Kendall</td>
</tr>
<tr>
<td><strong>Dr. Jack Britney Entrance Scholarship</strong></td>
<td>2 awards of $1,350</td>
<td>Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.</td>
<td>Friends and Associates</td>
</tr>
<tr>
<td><strong>George A. Gray O.A.C. '51 Varsity Scholarships [E0487]</strong></td>
<td>2 awards of $750 to $3,500</td>
<td>Students entering any sciences (B.Sc., B.Sc (Agr.), B.Sc.(Env.), B.Sc.(Tech), B.A.Sc., B.A.S., B.B.R.M., B.Eng.) degree program with a minimum 80.0% admission average.</td>
<td>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]</td>
</tr>
<tr>
<td><strong>Elaine Scott-Thomas Track and Field Scholarship [E0706]</strong></td>
<td>1 award of $1,000</td>
<td>Entering student-athlete who is a member of the Varsity Cross / Country or Track and Field Team and who has achieved a minimum 80% admission average.</td>
<td>Dave-Scott Thomas CBS BSc '88</td>
</tr>
<tr>
<td><strong>Frederick Hutt Scholarships [E0319]</strong></td>
<td>2 awards of $700</td>
<td>Students from Wellington County entering a College of Biological Science program with a minimum admission average of 85%.</td>
<td>Frederick B. Hutt, O.A.C. '23 and Professor Emeritus of Animal Genetics at Cornell University offers this scholarship. Application is not required.</td>
</tr>
<tr>
<td><strong>Embry Family Scholarship [E0736]</strong></td>
<td>1 award of $3,500</td>
<td>Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.</td>
<td>Mr. John Embry</td>
</tr>
<tr>
<td><strong>Gerd and Christel Baldauf Men's Basketball Scholarship [E0639]</strong></td>
<td>1 award of $3,500</td>
<td>Entering student-athlete entering the BSc program who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.</td>
<td>Student-athlete entering the BSc program who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.</td>
</tr>
</tbody>
</table>
Gordon McNally Memorial Scholarship [E0203]

In memory of Gordon McNally, Professor of Zoology in the Ontario Agricultural College (1934-1971) and College of Biological Science (1971-1979), who had a great interest in extracurricular activities. The recipient will be selected on the basis of academic performance and demonstration of outstanding contributions to extracurricular activities and/or community services. Apply to Student Financial Services by April 15 with a letter demonstrating contributions to extracurricular activities.

**Donor(s):** Jean and Peter Gower  
**Qualification(s):** Students entering any undergraduate degree program offered by the University of Guelph  
**Amount:** 1 award of $500

Gordon W. Innes Scholarship [E0140]

Application is not required.

**Donor(s):** Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.  
**Qualification(s):** Student entering any degree program from Oxford County with the highest admission average.  
**Amount:** 1 award of $1,400

Gryphon Athletic Scholarships [E0631]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** University of Guelph  
**Qualification(s):** Student who is a varsity athlete and who has achieved a minimum 80% admission average.  
**Amount:** various awards of $750 to $3,500

**Hardy International Student Scholarship [E0659]**

Selection is based on the assessment of the student's admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required.

**Donor(s):** Mrs. Marion Hardy  
**Qualification(s):** Full-time international students (defined as paying the international student tuition and fees) entering any degree program.  
**Amount:** 1 award of $3,000

Honours Chemistry Entrance Scholarship [E0130]

This scholarship will be awarded to the student entering with the highest admission average. Application is not required.

**Donor(s):** Faculty of the Department of Chemistry and their scholarship fund  
**Qualification(s):** Students entering semester one of the B.Sc. Honours Biological and Pharmaceutical Chemistry major or the Honours Chemistry major of the BSc program.  
**Amount:** 1 award of $500

Honours Mathematics or Statistics Scholarship [E0131]

This scholarship is awarded to the student with the highest admission average. Application is not required.

**Donor(s):** Faculty of the Department of Mathematics and Statistics, via the C.P.E.S. Scholarship Fund  
**Qualification(s):** Students entering semester one of the Honours Mathematics or Statistics degree program.  
**Amount:** 1 award of $500

Honours Physics Scholarship [E0132]

Several of these awards will be offered on a competitive basis to students entering with the highest admission averages. The number of scholarship offers is dependent on the cohort pool of applicants. Application is not required.

**Donor(s):** Department of Physics  
**Qualification(s):** Students entering the first semester level of the B.Sc. program or the B.Sc. (Tech.) program with a minimum 85.0% admission average and a declared intention of pursuing a major in Physics, Physics and Technology, Biophysics, Chemical Physics, or Theoretical Physics, or a Co-op stream of these programs.  
**Amount:** Several awards of $4,000

International Student Entrance Scholarships [E0408]

In support of the University's strategic directive of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is not required.

**Donor(s):** University of Guelph  
**Qualification(s):** Students on a "student visa" entering an undergraduate degree program at the University of Guelph with a record of high academic achievement and extracurricular involvement, and studying full-time. This award is offered for the first year of study.  
**Amount:** Several awards ranging in value from $500 - $6,000

J.D. MacLachlan Scholarship [E0170]

Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.

**Donor(s):** The J.D. MacLachlan Trust  
**Qualification(s):** Students entering any degree program at the University of Guelph.  
**Amount:** 1 award of $1,500

Jack and Lillian MacDonald Scholarship [E0379]

Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald  
**Qualification(s):** Students entering the Six Nations Polytechnic (SNP).  
**Amount:** 1 award of $900

Kelly Bertrand Cross Country Scholarship [E0684]

The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletics Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand  
**Qualification(s):** Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.  
**Amount:** 1 award of $2,000

Larry Pearson Men's Volleyball Athletic Scholarships [E0618]

Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men's varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson  
**Qualification(s):** Entering student-athlete who is a member of the men's varsity volleyball team and who has achieved a minimum 80% admission average.  
**Amount:** several awards up to $3,500

Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [E0732]

Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Maryam Latifpoor-Keparoutis  
**Qualification(s):** Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $1,200
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>[E0689]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lincoln Alexander Scholarships</td>
<td></td>
</tr>
<tr>
<td>Amount: 2 awards of $32,000 ($6,500 annually for 4 years of study plus one</td>
<td></td>
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<tr>
<td>$6,000 stipend for summer research assistantship)</td>
<td></td>
</tr>
<tr>
<td>Qualification(s): Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and communities. In addition, students must be: Aboriginal; or a person with a disability; or a member of a racial minority.</td>
<td></td>
</tr>
<tr>
<td>Donor(s): Many Donors</td>
<td></td>
</tr>
<tr>
<td>Note: Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary.</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>[E0708]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lloyd Dorrr Memorial Hockey Scholarship</td>
<td></td>
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<tr>
<td>Amount: 1 award of $1,000</td>
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</tr>
<tr>
<td>Qualification(s): Entering student-athlete who is a member of the men’s varsity hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.</td>
<td></td>
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<tr>
<td>Donor(s): Family and Friends of the late Lloyd Dorr</td>
<td></td>
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<tr>
<td>Note: Established in memory of Lloyd Dorrr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. No application is necessary.</td>
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<thead>
<tr>
<th>Scholarship Name</th>
<th>[E0183]</th>
</tr>
</thead>
<tbody>
<tr>
<td>McArthur-Humphries Scholarship</td>
<td></td>
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<tr>
<td>Amount: 12 awards of $1,000</td>
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</tr>
<tr>
<td>Qualification(s): Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.</td>
<td></td>
</tr>
<tr>
<td>Donor(s): Wilhelmmina McArthur-Humphries Trust Fund</td>
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</tr>
<tr>
<td>Note: An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county. These scholarships are awarded to students with the highest admission averages. Application is not required.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>[E0638]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Men's Basketball Scholarships</td>
<td></td>
</tr>
<tr>
<td>Amount: 4 awards of $2,500</td>
<td></td>
</tr>
<tr>
<td>Qualification(s): Entering student-athlete who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.</td>
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</tr>
<tr>
<td>Donor(s): Anonymous (Alumni)</td>
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<tr>
<td>Note: Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>[E0771]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Men's Soccer Alumni Scholarship</td>
<td></td>
</tr>
<tr>
<td>Amount: several awards ranging in value from $1,000 to $3,500</td>
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</tr>
<tr>
<td>Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.</td>
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</tr>
<tr>
<td>Donor(s): Mr. Paul Wombwell (on behalf of the Men's Soccer Alumni Committee)</td>
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</tr>
<tr>
<td>Note: Made possible by the generous contributions of Men's Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>[E0705]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moulton-Hutchinson Family Track and Field Scholarship</td>
<td></td>
</tr>
<tr>
<td>Amount: 1 award of $3,500</td>
<td></td>
</tr>
<tr>
<td>Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.</td>
<td></td>
</tr>
<tr>
<td>Donor(s): The Moulton and Hutchinson Families</td>
<td></td>
</tr>
<tr>
<td>Note: The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.</td>
<td></td>
</tr>
</tbody>
</table>
President's Scholarship [E0238]
Established in 1987 in honour of their donors or distinguished members of the University and are considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through personal, academic, extracurricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the Lincoln Alexander Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

Donor(s): A number of President's Scholarships have been in honour of the following people and/or donors:
Cecil H. Franklin and Ingrid Franklin
In honour of Cecil Franklin, former Chair of the Board of Governors and Honorary Fellow of the University, the University of Guelph has named one of these twelve prestigious entrance awards to recognize his financial contributions and volunteer support to the President's Entrance Scholarship program.
Charles S. Humphrey
In memory of Charles S. Humphrey, a former President of Hart Chemical Company Canada Ltd. and long-time friend, the University has named one of these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President's Entrance Scholarship program.
Jack R. Longstaffe
The University of Guelph has named one of these twelve prestigious entrance awards in memory of Jack R. Longstaffe to recognize his financial contribution through his estate to the President's Entrance Scholarship program.
Kathleen and Frederick Metcalf
Mr. and Mrs. F.T. Metcalf of Guelph have endowed this award. After a distinguished career in cable TV, broadcasting and publishing, the late Mr. Metcalf retired as President of Maclean Hunter Ltd. and Chairman of the Board of Maclean Hunter Cable Ltd. He was Honorary Chairman of Maclean Hunter Cable Ltd. and a member of the University of Guelph Heritage Board (1996).
Rol-land Farms Limited
Two of the scholarships are endowed by the four shareholders of Rol-land Farms Limited of Blenheim, Ontario, Hank, Peter, Arthur and Eric Vander Pol and their families. The Vander Pol families are generous supporters of a number of University projects and programs.
Lillian Stewart Usher
The University of Guelph has named one of these twelve prestigious entrance awards in honour of Lillian Stewart Usher a friend of the University to recognize her financial contribution through her estate to the President's Entrance Scholarship program.

Qualification(s): Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and/or communities.

Amount: 8 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistance)

Prof. John D. Goddard Honours Chemistry Entrance Scholarship [E0789]
Awarded to the student entering with the highest admission average. This award is not tenable with the Honours Chemistry Entrance Scholarship. Application is not required.

Donor(s): Professor John D. Goddard
Qualification(s): Students entering the Honours Chemistry major of a BSc program.

Amount: 1 award of $1,200

Professor Victor Matthews Track and Field Scholarships [E0707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.

Amount: up to 10 3500 each

Quinn Memorial Scholarship [E0578]
Established in memory of Ronald J. Quinn (O.A.C. ’35) to an entering O.A.C. international full-time or exchange student. Selection will be based on academic performance, letters of reference and an assessment of the admission application package. Application is not required.

Donor(s): Mrs. Helen Quinn (O.A.C. ’35
Qualification(s): Entering semester one of an O.A.C. program to an international full-time student or to an international exchange student with a preference to those students from developing nations.

Amount: 1 award of $1,500

Rachel Cliff Scholarship [E0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Ronald & Nancy Cliff
Qualification(s): Entering student-athlete who is a member of the Women’s Middle Distance Team and a distance runner who has achieved a minimum 80% admission average.

Amount: 1 award of $1,500

Robert Orr Lawson Microbiology Entrance Scholarship [E0489]
Provided through a generous bequest from the estate of Robert Orr Lawson, with matching support from the Department of Molecular and Cellular Biology, this scholarship is intended to encourage study and research related microbiology of foods and will be awarded to the student entering with the highest admission average. The scholarship will be paid over four years in installments of $1,000. The second to fourth payments are contingent upon obtaining a minimum average of 77% over the previous two semesters of full-time study in the major. Students who fail to qualify for a payment may re-qualify for the subsequent payments by obtaining a 77% or better average in the succeeding two academic semesters of full-time study. This scholarship may be held with any other awards except the Microbiology Entrance Bursary, or any of the other Robert Orr Lawson Microbiology Scholarships. Application is not required.

Donor(s): Department of Molecular and Cellular Biology and the estate of the late Robert Orr Lawson
Qualification(s): Students entering the Microbiology major in the B.Sc. program with a minimum admission average of 80%.

Amount: 1 award of $4,000 (payable over 4 years of study)

Samuel Acker Memorial Scholarship [E0001]
This scholarship is not tenable with other Senate awards. Application is not required.

Donor(s): The trustees of the estate of the late Samuel Acker (Mr. David Acker and Mr. Abraham Acker)
Qualification(s): Student entering the first semester level of the B.Sc. program in the College of Physical and Engineering Science. Preference may be given to students whose home residence is in either Wellington, Waterloo or Perth County.

Amount: 1 award of $1,000

Sprung Family Men’s Basketball Scholarship [E0672]
Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. Timothy Sprung
Qualification(s): Entering student-athlete who is a member of the Men’s basketball team and who has achieved a minimum 80% admission average.

Amount: 1 award of $3,500

Ted Morwick Scholarship [E0796]
Established by Alumnus Ted Morwick, BA ’70. The student with the highest admission average will be selected. This award is conditional on maintaining a 90% average in the previous year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify, (i.e. The student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year). If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opportunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary.

Donor(s): Mr. Edward (Ted) Morwick
Qualification(s): Students entering any degree program in the College of Arts.

Amount: 1 award of $8,000 (payable over four years.)

Tom Mooney Scholarship [E0709]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the varsity men’s football team or men’s basketball team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

Amount: Numerous awards ranging in value from $1,000 to $3,500
TSC Stores L.P. (TSC)
Entering student-athlete who is a member of the Men’s Hockey team
1 award of $1,000
2 awards of $30,000 (payable over 4 years of study)
1 award of $1,000
University of Guelph
All students entering their first year of post-secondary studies for the
Students entering any OAC degree program at the Guelph, Ridgetown
Ross and Mary Lou Klopp
Several awards of $2,000, Several awards of $3,000
Students from the cities of Kitchener or Waterloo entering a degree
Mr. B.A. Ward
Entering student-athlete who is a member of the Men’s Football team
Mr. Peter J. Devine with matching funding through the Ontario Trust for
Students entering any degree program planning to live in a Guelph
1 award of $550
Student entering the first semester level of the B.Sc. program, who
University of Guelph
Irene Thompson and Slabikowski Family
Dr. William P. Weber
Mrs. Irene McEwen

IX. Scholarships and Other Awards, Bachelor of Science

TSC Stores Scholarship in Memory of Gordon Illes [E0731]
Established in memory of Gordon Illes, a 1974 graduate of Ridgetown. Selection based on the quality of experience and/or leadership in volunteerism within the agriculture industry and the community, including extra curricular activities and career aspirations, e.g., 4H, Junior Farmers, agricultural work experience. Preference will be given to current employees of TSC Stores or their children. Apply by April 15th to the OAC Awards Office with a letter outlining career aspirations, extracurricular and community involvement in agri-food related activities and include a letter from TSC Stores management to verify employment if applicable.

Donor(s): TSC Stores L.P. (TSC)
Qualification(s): Students entering any OAC degree program at the Guelph, Ridgetown or Kemptville campuses with a minimum 80% admission average.
Amount: 1 award of $1,000

University of Guelph Entrance Scholarships [E0291]
The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student's financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive this award. Application is not required.

Donor(s): University of Guelph
Qualification(s): All students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average.
Amount: Several awards of $2,000, Several awards of $3,000

W. Peni Morris Memorial Scholarship [E0430]
Established by the family in memory of Peni Morris, who was killed World War II action in 1944 at the age of 21. Peni grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required.

Donor(s): Prof. Rosalina Morris
Qualification(s): Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.
Amount: 1 award of $1,000

W.C. Blackwood Memorial Entrance Scholarship in Physics [E0029]
Award is payable at $750 per annum in the student's 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required.

Donor(s): University of Guelph Faculty Association
Qualification(s): Students entering any undergraduate degree program at the University of Guelph from Wellington county.
Amount: 1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)

Waterloo-Wellington Science & Engineering Fair (WWSEF) Scholarship [E0619]
Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.

Donor(s): University of Guelph
Qualification(s): Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.
Amount: Various awards of $1,000

William L. McEwen OAC '43 Men's Varsity Hockey Scholarships [E0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mrs. Irene McEwen
Qualification(s): Entering student-athlete who is a member of the Men's Hockey team and registered in an undergraduate program and who has achieved a minimum 60% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [E0634]
Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. William P. Weber
Qualification(s): Entering student-athlete who is a member of the Men's Football team and achieved a minimum 80% admission average.
Amount: 1 award of $2,500

Entrance Scholarships with Financial Need

Bill Klepp Memorial Scholarship [E0150]
Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

Donor(s): Ross and Mary Lou Klepp
Qualification(s): Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.
Amount: 1 award of $500

Devine Family Scholarships [E4542]
On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government's OTSS program, established these two awards for the purpose of diversifying the ethnicity of the student body of the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out once every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the "Devine Family Scholarship Application". Deadline to submit the complete application (both parts, the E.N.A.F and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards. ACCESS AWARD.

Donor(s): Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability, or who are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $30,000 (payable over 4 years of study)
Gary Kneckel Memorial Scholarship [E4500]
Established by the Toronto Section of the Canadian Institute of Food Science and Technology, with the assistance of the Ontario government’s OSOTF program, in memory of Gary Kneckel (1943 - 1988) a revered and outstanding leader in the food industry and a long time member of the Canadian Institute of Food Science and Technology. Academic standing in high school O.A.C. subjects and an interest in Food Science will be used to determine the recipient. Subsequent installments are dependent on continued demonstration of financial need and satisfactory progress in Food Science. Gary Kneckel Memorial Scholarship applications will be mailed to all Food Science major applicants by the Department of Food Science. The application along with a completed Financial Need Assessment Form (N.A.F.) for Entrance Awards are due back to Student Financial Services by April 15. Students are encouraged to complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services. ACCESS AWARD.
Donor(s): Toronto Section, Canadian Institute of Food Science and Technology with matching funding.
Qualification(s): Students with demonstrated financial need entering the Food Science major in the B.Sc. program. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $6,000 ($1,500 annually for 4 years of study)

Interhall Council Entrance Scholarship [E0636]
Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-point summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.
Donor(s): Interhall Council
Qualification(s): Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, having completed 5, 10 and 15 credits of study in the major and demonstrated strong leadership ability.
Amount: 3 awards of $1,250

John Embry Family Scholarship [E4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.
Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $3,500

Kenneth O. Hammill-Blount Canada Scholarship [E4356]
Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government’s OSOTF program. Selection will be based on greatest financial need from the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who submitted an application for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) by April 15. ACCESS AWARD.
Donor(s): The Blount Foundation, Inc. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Entering students who have applied for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships who are interviewed, but not successful in the competition with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $9,600 (payable in 8 payments of $1,200)

Landoni Athletic Scholarship [E4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Student must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD.
Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Microbiology Entrance Scholarship [E3545]
Provided through a generous bequest from the estate of Robert Orr Lawson and the Department of Molecular and Cellular Biology, with the assistance of the Ontario government's OSOTF program. The bursary will be paid over four years in installments of $1,000. The second to fourth payments are contingent upon obtaining a minimum average of 77%, having completed 5, 10 and 15 credits of study in the major and demonstrating continued financial need. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. This bursary may be held with any other award, except any of the Robert Orr Lawson Scholarships. ACCESS AWARD.
Donor(s): Department of Molecular and Cellular Biology and the estate of Robert Orr Lawson with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Entering student in the Microbiology major in the B.Sc. program who has a minimum 80% average and who has demonstrated greatest financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $4,000 (payable over 4 years)

Norman L. Gibbins Microbiology Scholarship [E4392]
Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government’s OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.
Donor(s): Family, friends and colleagues of Norman Gibbins with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students entering the Microbiology major in the B.Sc. program with a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,000
PAJ Clarke Family Scholarship [E0381]
Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.). This award is not tenable with the President's Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrollment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

Donor(s): Paul and Aileen Clarke
Qualification(s): Students with a minimum 80% average with a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm.
Amount: 1 award of $12,000 (payable over 4 years)

Robert C. Skipper Scholarship [E0485]
Established by Robert C. Skipper, Diploma in Agriculture 1948 and B.S.A. 1951. Selection will be based on academic standing, participation in extra-curricular activities and involvement in primary production and/or rural community activities. Financial need may also be considered. Apply to Student Financial Services by April 15 with a one-page summary outlining activities and by completing the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.).

Donor(s): Mr. Robert C. Skipper
Qualification(s): Students entering a degree program in O.A.C that have graduated with a Diploma in Agriculture or Horticulture from the University of Guelph's Kemptville or Ridgetown campuses.
Amount: 1 award of $1,000

Rol-Land Farms Scholarships [E4519]
Established by Rol-Land Farms, with the assistance of the Ontario government's OSOTF program. In an application for admissions has been submitted by the student) or by April 15. The Mitchell Family established the endowment for this entrance scholarship in honour of Mr. Robert's late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a female student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): The Mitchell Family with matching funding through the Ontario Trust for Student Support program
Qualification(s): An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $4,500

W. F. Mitchell Athletic Scholarship [E4550]
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): The Mitchell Family with matching funding through the Ontario Trust for Student Support program
Qualification(s): A student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards.
Amount: 1 award of $1,350

Spitzig Entrance Scholarship in Economics [E4543]
A graduate (1986) of the B.A. Economics program has established this scholarship with the assistance of the Ontario government's OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

Donor(s): Anonymous with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $4,500

Entrance Bursaries

Spitzig Entrance Scholarship in Economics [E4543]
A graduate (1986) of the B.A. Economics program has established this scholarship with the assistance of the Ontario government's OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

Donor(s): Anonymous with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $4,500

 Elizabeth Maud Hunter (Shier) Bursary [E3575]
This award was created to assist first-year students in obtaining a post-secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a female student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards. ACCESS AWARD

Donor(s): The Estate of the Late William Henry "Harry" Hunter with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students entering any degree program at the University of Guelph with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 3 awards of up to $4,500

First Year Student Residence Bursary [E3066]
These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they held this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the online Financial Need Assessment Form for Entrance Awards by April 15.

Donor(s): Student Housing Services
Qualification(s): Students entering any degree program with demonstrated financial need.
Amount: 5 awards of $500

Guelph's Kemptville or Ridgetown campuses.
Amount: 13 awards of $2,000

Seelman Brewing Scholarships [E4267]
Established by the Seelman Brewing and Malting Company, with the assistance of the Ontario government's OSOTF program. One award alternates between a B.Sc. student in the College of Biological Science and the College of Physical and Engineering Science (beginning with C.P.E.S. in 2000/2001); one award is available to a B.Comm. students, in a major offered by the School of Hospitality and Tourism Management. Selection is by the University Bursary Committee. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): The Seelman Brewing & Malting Company with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time entering students registered in the B.Sc. program in the College of Biological Science or the College of Physical and Engineering Science and B.Comm. students, in a major offered by the School of Hospitality and Tourism Management with a minimum admission average of 80% and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,000

Last Revision: Oct. 19, 2012
**Fred Hindle Bursary [E3500]**
Awardeed in memory of Fred Hindle, O.A.C./'38, a long-time generous supporter of his Alma Mater, who at the time of his death, wanted future students to have the same opportunity for an education as he had received. This bursary is awarded with the assistance of the Ontario government's OSOTF program. This bursary is dependent on continued demonstration of financial need and successful completion of study to advance into the next year. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.

**Donor(s):** W. Roy Hindle and family with matching funding through the Ontario 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Student entering semesters 7 or 8 in the winter semester in a major.

**Qualification(s):** Entering O.A.C. degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statement on Awards).

**Amount:** 1 award of $6,000 (payable over 4 years)

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**Harvey Graham Bursary [E3030]**
Provided by Harvey Graham (O.A.C./'39). Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15.

**Donor(s):** Harvey Graham, O.A.C./'39
**Qualification(s):** Student who has demonstrated financial need with preference given to a student who comes from a working farm. Students graduating from Lindsay C. V. I., Fenelon Falls Secondary School, or I.E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student's home township.

**Amount:** 1 award of $1,200

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**International Student Entrance Bursaries [E3043]**
In support of the University’s strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar’s Entrance Award Application to Student Financial Services.

**Donor(s):** University of Guelph
**Qualification(s):** Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.

**Amount:** Several awards ranging in value from $1,000 to $3,000

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**Registrar’s Entrance Bursaries [E3034]**
Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Bursary, but can be held with all other Entrance Awards.

**Donor(s):** University of Guelph
**Qualification(s):** Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.

**Amount:** 500 awards of $2,000

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**Robert Arthur Stewart Bursaries [E3272]**
Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

**Donor(s):** The Estate of Mrs. H. Stewart
**Qualification(s):** Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.

**Amount:** 12 awards of $500

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**University of Guelph Accessibility Bursaries [E3038]**
Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar’s Entrance Bursary, but can be held with all other Entrance Awards.

**Donor(s):** University of Guelph
**Qualification(s):** Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.

**Amount:** 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

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**In-course Scholarships**

### 1961-1964 Redmen Football Scholarships [I0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Dr. Robert Keith (c/o 1961-1964 Football Committee)
**Qualification(s):** Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** several scholarships ranging from $1500 to $3500

### 2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [I0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
**Qualification(s):** Current member of the Gryphon Men’s Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,500

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**Al Singleton Hockey Scholarships [I0687]**
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** 1957-58 OA-VC Redmen Championship Hockey Team
**Qualification(s):** Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

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**Alex Peepre Memorial Scholarship [I0232]**
A scholarship established by friends of the late Professor Alex Peepre. In assessing student leadership, activity in student organizations, athletics, teaching assistantships, etc. will be considered. Application is not required.

**Donor(s):** Friends of the late Professor Alex Peepre
**Qualification(s):** Student entering semesters 7 or 8 in the winter semester in a major offered by the Department of Human Health and Nutritional Sciences (Human Kinetics, Nutritional and Nutraceutical Sciences, or Biomedical Science), who has high academic standing and who displays marked qualities of leadership.

**Amount:** 1 award of $500 and a Certificate
## IX. Scholarships and Other Awards, Bachelor of Science

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<thead>
<tr>
<th>Award Name</th>
<th>Code</th>
<th>Description</th>
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| Allen Keele Track and Field Scholarship | 10663 | Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.  
**Donor(s):** Allen Keele  
**Qualification(s):** In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.  
**Amount:** 1 award of $1,350 |
| Alum Joseph Tribute Scholarship | 10756 | Selection will be based on significant prior contributions to and experience in community-based service and future participation in curriculum-embedded experiential learning opportunities in the following academic year. Apply to the CSAHS Awards Committee by May 15th with a summary letter outlining prior contributions and experience in community-based service, and how funds would be used to support participation in curriculum-embedded experiential learning opportunities in the following academic year.  
**Donor(s):** Dr. Alum Joseph Dean of the College of Social and Applied Human Sciences from 2000-2010 & Mrs. Gillian Joseph (CSS BA '94, FACS MSc '96) along with contributing donors to the Alum Joseph Tribute Fund  
**Qualification(s):** Full-time students registered in any program offered by the College of Social and Applied Human Sciences with a minimum 75% cumulative average who are participating in curriculum-embedded community-based experiential learning in the following academic year.  
**Amount:** 1 award of $1,000 |
| Analytical Biochemistry Scholarship | 10281 | Awarded to the students with the highest grade in BIOC*3570, Analytical Biochemistry, in each of the two course offerings in the previous calendar year. Eligible students must be continuing in a Major or Honours program administered by the Department of Molecular and Celluar Biology. No application is necessary.  
**Donor(s):** Dr. F.J. Sharom and the Department of Molecular and Cellular Biology  
**Qualification(s):** Students enrolled in the Biochemistry Honours program or Biochemistry Co-op program who have completed BIOC*3570, Analytical Biochemistry in the previous calendar year. Students must be continuing in a Major or Honours program administered by the Department of Molecular and Cellular Biology.  
**Amount:** 2 awards of $500 |
| Analytical Toxicology Award | 10465 | Application is not required.  
**Donor(s):** Donor wishes anonymity  
**Qualification(s):** Students registered in a toxicology major who achieves the highest grade in the course TOX*3300, Analytical Toxicology. Prize will be awarded at the Annual Toxicology Symposium.  
**Amount:** 1 award of $200 |
| BASF Canada Scholarship in Crop Protection | 10754 | Selection will be based on past work experience in the area of crop protection or crop agronomics, future goals, and academic achievement. Apply by letter (no more than 2 pages) outlining work experience in the area of crop protection or crop agronomics and future career goals to the Chair, Department of Plant Agriculture by May 15th.  
**Donor(s):** BASF Canada Inc. o/a BASF Canada  
**Qualification(s):** OAC students registered in the B.Sc. (Agr) or B.Sc.programs who have completed a minimum 10.0 credits with a minimum 70% cumulative average.  
**Amount:** 1 award of $2,500 |
| Bill Taylor Memorial Scholarship | 10280 | Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.  
**Donor(s):** AMF Canada Ltd.  
**Qualification(s):** Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or intercollegiate athletics.  
**Amount:** 1 award of $900 |
| Blackburn Scholarship | 10404 | In commemoration of the 125th Anniversary of the Ontario Agricultural College, Dr. D.J. Blackburn, a retired faculty member of the former Rural Extension Studies program and former Director of the Associate Diploma Program has established this scholarship. Apply by letter, citing athletic contributions, to the O.A.C. Awards Committee by May 15.  
**Donor(s):** D.J. Blackburn  
**Qualification(s):** O.A.C. degree or diploma student who has participated in intercollegiate athletics and maintained a minimum cumulative average of 70% while registered at Guelph. Athletic excellence and leadership will be used to determine the recipient.  
**Amount:** 1 award of $500 |
| Bob & Joyce Brooks Football Scholarships | 10691 | The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.  
**Donor(s):** Mrs. Joyce Brooks  
**Qualification(s):** Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.  
**Amount:** Numerous awards ranging in value from $750 to $3,500 |
| Bob McCann Memorial Prize | 00314 | The scholarship will be awarded to the student who has completed the 8th semester level with the highest cumulative average in core courses in the Wild Life major. Application is not required.  
**Donor(s):** Mr. & Mrs. Edward H. McCann  
**Qualification(s):** Student commencing semester 8 in honours Wild Life Biology major.  
**Amount:** 1 award of $700 |
| Brian L. Walker Memorial Scholarship | 10301 | The scholarship will be awarded on recommendation of the Department of Human Health and Nutritional Sciences based on academic achievement in six Nutritional Sciences courses. This scholarship is not tenable with the Dr. Hugh D. Branion Memorial Scholarship. Application is not required.  
**Donor(s):** Brian Walker Memorial Scholarship Committee  
**Qualification(s):** Student registered in semester level 8 in B.Sc. Nutrition and Nutraceutical Sciences major in the Winter semester.  
**Amount:** 1 award of $500 |
| Bruce Sells Medal of Academic Excellence | 10402 | In honour of Bruce Sells, the Dean of the College of Biological Science, 1983-1995, a silver medal is presented. Application is not required.  
**Donor(s):** Dr. Bruce Sells and friends  
**Qualification(s):** Presented to the student who has graduated at the completion of the Winter semester, or during the previous Fall or Spring semester, with the highest cumulative average in the Honours Biological Sciences, B.Sc. degree program.  
**Amount:** 1 award of a Silver medal |
| Bruce W. Minshall Memorial Scholarship | 10450 | Provided by Dr. W.H. Minshall (O.A.C.'33) in memory of his son Bruce, a graduate of O.A.C. in 1970. Apply by May 15 to the OAC Dean's Office (Awards) by letter listing courses taken in the area of crop protection. Awarded in the fall semester.  
**Donor(s):** O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall  
**Qualification(s):** O.A.C. students in the B.Sc. (Agr.), B.Sc.(Env.) or B.Sc. degree programs who have completed semester level 6 are eligible. Interest in crop protection and achievement in courses such as CROP*4240, ENVB*3030, ENVB*3210, ENVB*4100, and ENVB*4240 will be considered. Awarded to the student with an interest in crop protection and showing the greatest improvement in academic standing since entering the program.  
**Amount:** 1 award of $1,100 |

Last Revision: Oct. 19, 2012

2012-2013 Undergraduate Calendar
Bryant Family Research Scholarship [I0537]
This scholarship was established through the generosity of W. Keith Bryant, O.A.C. ‘57, in honour of the contributions to the University made by his grandfather, Robert Bryant, his father, Leonard R. Bryant and his uncle, H. William Bryant. Robert Bryant was a Stockkeeper in the Chemistry Department from the 1920’s to the 1940’s. Leonard R. Bryant, Professor of Chemistry and Dairy Chemist, served the University from 1927 to 1958. H. William Bryant, O.A.C. ’31, was employed by the Apiculture Department from 1931 to 1934. All applicants must submit copies of their research proposals and one page abstracts to either the Chair of the Department of Integrative Biology by September or January of each year. The successful candidate will be selected by the College of Biological Sciences Awards Committee on the recommendation of the Department of Integrative Biology.

Donor(s): Dr. W. Keith Bryant
Qualification(s): Any undergraduate student enrolled in undergraduate research project courses administered by the Department of Integrative Biology. The student will be judged to have the best proposal for an undergraduate research project and meet a minimum standard of excellence.
Amount: 2 awards of $300

Cambrian Chemicals Inc. Scholarship [I0641]
The recipient will be selected based on academic performance, extracurricular activities, and demonstrated leadership and interest in entrepreneurship and/or the sciences. Apply to the CME Awards Committee by May 15 and include a CV and a statement of up to 500 words explaining your interest in entrepreneurship and/or the sciences and how that relates to your employment aspirations in the business sector after graduation. Short-listed candidates will be invited to an interview.

Donor(s): Cambrian Chemicals Inc.
Qualification(s): Registered full-time students in any BComm major, offered within the College of Management and Economics, who has completed a minimum of 7.5 credits but no more than 15.0 credits with a minimum 75% average in the last two full-term semesters.
Amount: 1 award of $5,000

Canadian Federation of University Women/Guelph Scholarship [I0294]
The Guelph Chapter of the Canadian Federation of University Women provides this annual scholarship. Application is not required.

Donor(s): The Guelph Chapter of the Canadian Federation of University Women
Qualification(s): Female student registered in Year 3 in the Fall semester in either B.ENG., B.A. (College of Physical and Engineering Science) or B.Sc.(College of Physical and Engineering Science) who has the highest cumulative average. Preference will be given to a student who has graduated from a secondary school in Wellington County.
Amount: 1 award of $2,000

CBS Student Council Academic Achievement Scholarship [I0744]
The CBS Student Council provides this scholarship to recognize and further encourage the academic and extracurricular achievements of CBS students. Selection will be based on academic achievement, extracurricular activities and personal essay. Apply to the CBS Dean’s Office by May 15 with a completed application form listing academic awards, scholarships, research experience, publications and extra-curricular activities along with a 500 word personal essay outlining how the academic achievements and extra-curricular activities contribute to academic and personal goals. Award may be held only once.

Donor(s): CBS Student Council
Qualification(s): Full time students registered in a major offered by the College of Biological Science who have completed at least 10.0 credits with a minimum cumulative average of 85%.
Amount: 1 award of $2,500

CBS Student Council Extracurricular Achievement Scholarship [I0745]
The CBS Student Council provides this scholarship to recognize and further encourage the academic and extracurricular achievements of CBS students. Selection will be based on breadth of extra-curricular activities, academic achievement and personal essay. Apply to the CBS Dean’s Office by May 15 with a completed application form listing extra-curricular activities, academic awards, scholarships, research experience and publications along with a 500 word personal essay outlining how the extra-curricular activities and academic achievements contribute to academic and personal goals. Award may be held only once.

Donor(s): CBS Student Council
Qualification(s): Full time students registered in a major offered by the College of Biological Science who have completed at least 10.0 credits with a minimum cumulative average of 80%.
Amount: 1 award of $2,500

CFRU Volunteer Award [I0215]
Apply to the CFRU Board of Governors by April 30.

Donor(s): Station Manager, CFRU
Qualification(s): Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU.
Amount: 2 awards of $250

Chair’s Prize in Human Health and Nutritional Sciences [C0555]
Established by the Department of Human Health and Nutritional Sciences. These awards are presented to the student with the highest cumulative average in each of Human Kinetics, Biomedical Sciences, and Nutrition and Nutraceutical Science. Application is not required.

Donor(s): Human Health and Nutritional Science Department
Qualification(s): Full-time students who have completed the B.Sc. Degree program in Human Kinetics, Biomedical Science, and Nutrition and Nutraceutical Science within the most recently completed academic year.
Amount: 3 awards of $300

Charles McGowan Memorial Prize [C0187]
Established in memory of the late Lieutenant Charles McGowan. Application is not required.

Donor(s): Charles McGowan Memorial Fund
Qualification(s): Outstanding graduating student in an O.A.C. degree program.
Amount: 1 award of $200

Chemical Institute of Canada (CIC) Silver Medal in Chemistry [I0646]
A silver medal is presented to the students with the highest cumulative average in each of the Honours Chemistry, Biological Chemistry and Applied Pharmaceutical Chemistry programs. Application is not required.

Donor(s): Chemical Institute of Canada
Qualification(s): Students registered in the Honours Chemistry, Biological Chemistry or Applied Pharmaceutical Chemistry programs who have completed a minimum of 15.0 credits during the previous calendar year.
Amount: 3 Silver medals

Chemical Institute of Canada Prize (CIC) Silver Medal in Biochemistry [I0056]
Application is not required.

Donor(s): Chemical Institute of Canada
Qualification(s): Student enrolled in the Biochemistry Honours program or Biochemistry Co-op program who have completed a minimum of 15.0 credits with the highest cumulative average.
Amount: 1 Silver medal

Chemistry Club Prize for Chemistry Promotion [I0495]
Awarded to the student who has made outstanding efforts to promote chemistry within the university or the community. Applicants should submit a one-page summary outlining their efforts to promote the disciplines of chemistry within the university, or the community to the Chair of the Department of Chemistry Undergraduate Awards Committee by February 1st.

Donor(s): The Chemistry Club
Qualification(s): Students registered in any degree who are members of the Chemistry Club.
Amount: 1 award of $200
**Class of '51 O.A.C. Leadership Prizes [C0063]**

Established by Year '51 O.A.C., on the occasion of its 45th anniversary. At the discretion of the O.A.C. Awards Committee students may be selected before graduation. Application is not required.

**Donor(s):** Year '51 O.A.C.

**Qualification(s):** Students graduating from the degree program in a major in an O.A.C. department who have a 70% standing in the final year of study and who have demonstrated leadership in the College or University extracurricular activities.

**Amount:** 5 awards of $2,000

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**Class of '67 O.A.C. Centennial Scholarship [10067]**

Apply by May 15 to the O.A.C. Awards Office with a letter outlining participation in extracurricular activities in all branches of college life. Awarded in the fall semester.

**Donor(s):** Class of O.A.C. '67

**Qualification(s):** Student majoring in an O.A.C. department who through activity in all branches of college life as well as scholastic achievement has made an outstanding contribution to the University.

**Amount:** 1 award of $2,000

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**Class of 1970 Scholarship [10424]**

Established by the Silver Anniversary celebrants to commemorate the 25th anniversary of the University Class of 1970. This award rotates among all six colleges on the main campus. The appropriate College Award Committee selects the candidate each Fall semester and the candidate is announced each October. Application is not required.

**Donor(s):** Class of 1970: 25th Reunion Gift

**Qualification(s):** Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans' Honours List.

**Amount:** 1 award of $900

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**Clayton and Dorothy Switzer Scholarships [10276]**

Apply by May 15 to the OAC Dean's Office (Awards) with a letter outlining how you have demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal. Awarded in the fall semester.

**Donor(s):** Clayton and Dorothy Switzer

**Qualification(s):** Students registered in a degree program offered by O.A.C. with a minimum of 10.0 credits completed, at least a 70% cumulative average and has demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal.

**Amount:** 1 award of $2,000

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**Coach Rudy Florio Football Scholarship [10737]**

Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Mr. Rudy Florio

**Qualification(s):** Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $3,500

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**College of Biological Science Gold Medalist [C0072]**

Presented to the College of Biological Science nominee for the Winegard Medal. The award will be presented at the time of the Spring Convocation. Application is not required. One award of a gold medal and $200.

**Donor(s):** An anonymous donor

**Qualification(s):** The recipient is selected by the Awards Committee of the College of Biological Science.

**Amount:** 1 award of $200, 1 Gold Medal

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**College of Physical Engineering Science Academic Scholarship [10073]**

Application is not required.

**Donor(s):** College of Physical and Engineering Science

**Qualification(s):** Offered in the Winter semester to students who have completed at least 15.0 course credits in a College of Physical and Engineering Science program and have excellent grades but have not received awards recently.

**Amount:** 2 awards of $250

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**College of Physical Engineering Science Graduation Prize [C0075]**

The winner will be selected in May from all students who have completed the program in the previous twelve months. Application is not required. One award of $250 and a commemorative plaque.

**Donor(s):** College of Physical and Engineering Science

**Qualification(s):** Student graduating with the highest cumulative average from an honours B.Sc. program in a Physical and Engineering Science area.

**Amount:** 1 award of $250, 1 Commemorative plaque

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**Collins Barrow Award [10040]**

Offered by Collins Barrow, a national firm of Chartered Accountants. Application is not required.

**Donor(s):** Collins Barrow Chartered Accountants

**Qualification(s):** Student with the highest grade in course ACCT*3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship will be given to the student with the highest cumulative average in their program.

**Amount:** 1 award of $500

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**Copernicus Scholarship in Physics [10081]**

Application is not required.

**Donor(s):** The faculty members of the Department of Physics through their Scholarship Trust Fund

**Qualification(s):** Students who have completed 7.5 course credits and are registered in one of the majors programs in Physics. To be eligible, students must have completed the courses PHYS*2440 and PHYS*2460 with a minimum of an A average. The awards will be made to the students with the highest average in the Physics courses taken in the Year 1 and in PHYS*2440 and PHYS*2460.

**Amount:** 4 awards of $500

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**CSAHS Student Volunteer Scholarship [10482]**

Inspired by Theresa Firestone, FACS ’78, and funded by the Harshman Fellowships Society and Pfizer Canada Inc. Students may apply on their own or be recommended by other students, faculty members or administrators from non-profit organizations. Apply to the CSAHS Dean’s Office with two letters of recommendation, at least one of which should be from an individual who can speak to his/her volunteerism and a summary letter outlining the student’s volunteer experience and what has been gained or learned from this experience that has enhanced his/her personal growth and/or career goals by May 15.

**Donor(s):** Harshman Fellowship Society and Pfizer Canada Inc.

**Qualification(s):** Full-time undergraduate students in any degree program offered by the College of Social and Applied Human Sciences and have completed at least 15 course credits with a minimum cumulative 70% average.

**Amount:** 1 award of $450 plus an equal amount to the charitable organization of the recipient's choice

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**David F. Boyes Apiculture Scholarship [10031]**

Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application is not required.

**Donor(s):** The Apiculture Club

**Qualification(s):** Student registered in the Fall semester who achieves high academic standing in Introductory Apiculture ( ENVB*2210 ) in the previous year, demonstrates an interest in apiculture and who has participated in extracurricular activities.

**Amount:** 1 award of $150

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**Deans' Scholarships [10323]**

This award was established by the Board of Governors’ in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.

**Donor(s):** Board of Governors

**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.

**Amount:** 150 awards of $1,000
Deep Creek Dairies Ltd. Scholarship [I0654]

Established by C. Di Giacomo in memory of Adri van den Tillaart, owner of Deep Creek Dairies, a hardworking, kind, tough, ingenious dairy/beef farmer. Selection will be based on academic achievements and demonstrated leadership ability and involvement in 4H. University of Guelph Dairy Challenge Team, University of Guelph Animal Science Club, or University of Guelph Dairy Science Club. Apply by May 15 to the OAC Awards Committee, with a letter of no more than two pages listing the Animal Science courses taken and outlining demonstrated leadership and involvement in the clubs mentioned.

Donor(s): Carmie Di Giacomo
Qualification(s): Students enrolled in the B.Sc.(Agr.) program or the Animal Biology major of the B.Sc. program with a minimum cumulative average of 75%, who are specializing in dairy or beef farming and are involved in 4H, University of Guelph Dairy Challenge Team, University of Guelph Animal Science Club or University of Guelph Dairy Science Club.
Amount: 1 award of $1,000

Douglas M. Robinson Memorial Prize for Excellence in Communications [I0409]

In memory of Douglas Robinson (O.A.C.'53), and in conjunction with the establishment of an innovative curriculum in agricultural science at the University of Guelph in 1995, the Innovative Farmers' Association of Ontario and the Robinson family provide this annual prize. Apply by May 15th to the OAC Awards Office, Johnston Hall with a letter describing how these courses have helped to communicate effectively and indicate ways in which the courses have been used to contribute to success. A letter from the course instructor would also be considered. Selection will be based on demonstrated excellence in communication.

Donor(s): The Innovative Farmers Association of Ontario
Qualification(s): Students registered in any degree program offered by OAC who have completed one or more of the following courses with a minimum grade of 75% in each course completed: EDRD*3050 Agricultural Communication; EDRD*3120 Educational Communication; EDRD*3140 Organizational Communication; EDRD*3160 International Communication; ENVB*3000 Nature Interpretation.
Amount: 1 award of $1,000

Dr. Caesar V. Senoff Memorial Scholarship for Excellence in Chemistry [I0517]

The Senoff family and the College of Physical and Engineering Science, together with the University of Guelph Faculty Association and friends, have established this scholarship in memory of Dr. Caesar V. Senoff. Dr. Senoff discovered the first dinitrogen complex while completing his PhD at the University of Toronto, opening up a new field of chemistry. A valued member of the University of Guelph faculty from 1968 to 1996, his positive influence continues through his students and colleagues. This scholarship will be awarded annually to the student with the highest cumulative average. Application is not required.

Donor(s): Senoff family and the College of Physical and Engineering Science, together with the University of Guelph Faculty Association and friends
Qualification(s): Students registered in a major offered by the Department of Chemistry who have completed between 7.5 and 9.75 credits and a minimum cumulative average of 80%.
Amount: 1 award of $500

Dr. David Porter Memorial Prize in Physiology [C2174]

Established in memory of Dr. David Porter, Chair of the Department from 1986 until his untimely death in 1994. Dr. Porter was an outstanding contributor to our knowledge of the physiology of the hormone relaxin. The recipient will be the student with the highest combined cumulative average in the courses: Mammalian Physiology (BIOM*3200 or ( BIOM*3100 , BIOM*3110 ) and Endocrine Physiology (BIOM*4030); OR Mammalian Physiology (BIOM*3200 or ( BIOM*3100 , BIOM*3110 )) and Biomedical Aspects of Aging (BIOM*4050); OR Mammalian Physiology (BIOM*3200 or ( BIOM*3100 , BIOM*3110 )) and Cardiology (BIOM*4180). Application not required.

Donor(s): The Department of Biomedical Sciences
Qualification(s): Students who have graduated from the Bachelor of Science program with a major in Bio-Medical Science in the previous fall and winter semesters or will graduate with this major in the summer semester.
Amount: 1 award of $200

Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [I0695]

Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

Donor(s): Various Donors
Qualification(s): Current member of the Varsity Cross/Country or Track and Field Team, who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete
Amount: 1 award of $1,350

Dr. Ken Fisher Prize for Histology and Embryology [C2175]

Established in honour of Dr. Ken Fisher, a respected faculty member in the Department of Biomedical Science from 1992 until 2004. The recipient will be the student with the highest combined cumulative average in Biomedical Histology (BIOM*4070) and Biomedical Embryology (BIOM*5040). Application not required.

Donor(s): The Department of Biomedical Sciences
Qualification(s): Students who have graduated from the Bachelor of Science program with a major in Bio-Medical Science in the previous fall and winter semesters or will graduate with this major in the summer semester.
Amount: 1 award of $200

Dr. Peter Eyre Pharmacology and Toxicology Prize [C2176]

Named after Dr. Peter Eyre, Chair of the Department of Biomedical Sciences from 1979-1985 and Associate Director, Canadian Centre for Toxicology. The recipient will be the student with the highest cumulative average in the courses Principles of Pharmacology and Toxicology (BIOM*3900) and Pharmacology (BIOM*4090).

Donor(s): The Department of Biomedical Sciences
Qualification(s): Students who have graduated from the Bachelor of Science program with a major in Bio-Medical Science in the previous fall and winter semesters or will graduate with this major in the summer semester.
Amount: 1 award of $200

Dr. R. J. Hilton Memorial Scholarship [I0678]

Established to honour the accomplishments of Dr. Hilton as the Chair, Horticulture Science, University of Guelph, first Director of the Arboretum and President/Chair of the Royal Botanical Gardens. Selection will be based on the highest cumulative average, demonstrated involvement in horticulture activities and involvement in academic club activities. Summer related work experience will also be considered. Preference will be given to students registered in B.Sc.(Agr.) CHATS and B.Sc. Plant Science. Apply by May 15 to the O.A.C. Awards Office with a letter outlining the plant agriculture course(s) and/or involvement in horticultural activities and summer related work experience or information about involvement in academic club activities.

Donor(s): Robert E. Hilton
Qualification(s): Students registered in any program offered by O.A.C. who have completed a minimum 8.0 credits with a minimum 70% cumulative average.
Amount: 1 award of $1,000

Dr. R.A.B. Keates Biochemistry Scholarship [I0667]

Established by Professor Robert A.B. Keates, faculty member since 1977 and awarded to the student with the highest cumulative average in the required Biochemistry courses. This award may be held only once. Application is not required.

Donor(s): Dr. Robert A.B. Keates
Qualification(s): Students registered in a Biochemistry major offered by the Department of Molecular and Cellular Biology who have completed between 15.0 and 19.75 credits and have a minimum 80% cumulative average in the required Biochemistry courses.
Amount: 1 award of $1,000

E.B. MacNaughton Convocation Prize [C0171]

Established by the College of Physical and Engineering Science to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Application is not required. One award of a plaque-mounted medal and $250.

Donor(s): The College of Physical and Engineering Science
Qualification(s): The College of Physical and Engineering Science nominee for the Winegard Medal.
Amount: 1 award of $250, 1 Plaque-mounted medal

Egelstaff Scholarship [I0397]

In honour of University Professor Emeritus and former Chair of the Department of Physics, Peter A. Egelstaff. Application is not required.

Donor(s): Department of Physics
Qualification(s): Student who has completed 12.5 course credits, is currently registered in one of the majors in Physics and has a high cumulative average (of at least 80%) in the required Physics courses normally taken in Years 2 & 3 of the major.
Amount: 1 award of $500
### Scholarships and Other Awards, Bachelor of Science

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elaine Scott-Thomas Track and Field Scholarship</td>
<td>Dave Scott-Thomas CBS BSc ‘88</td>
<td>Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>Embry Family Scholarship</td>
<td>Mr. John Embry</td>
<td>Current member of a varsity team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete</td>
<td>1 award of $3,500</td>
</tr>
<tr>
<td>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship</td>
<td>Ernest Kendall</td>
<td>In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.</td>
<td>2 awards of $1,350</td>
</tr>
<tr>
<td>Fisher Scientific Scholarship in Biochemistry</td>
<td>Fisher Scientific</td>
<td>Students enrolled in the Biochemistry Honours program or the Biochemistry Co-op program who have completed a minimum of 7.5 credits up to a maximum of 9.75 credits at the end of the fall semester.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Floyd Roadhouse Prize in Analytical Chemistry</td>
<td>Professor E.B. Roadhouse, colleagues, students and friends</td>
<td>Students registered in an honours major program offered by the Department of Chemistry and who have completed CHEM*2400, Analytical Chemistry.</td>
<td>1 award of $200</td>
</tr>
<tr>
<td>Football Endowment Fund (EEF) Scholarship</td>
<td>Various University of Guelph donors</td>
<td>In-course student-athlete who is a current member of the Men's football team and has achieved a minimum 70% average in the previous academic year.</td>
<td>various awards of $750 to $3,500</td>
</tr>
<tr>
<td>Fourth Year Nanoscience Scholarship</td>
<td>Dean's Office College of Physical and Engineering Science</td>
<td>B.Sc. students registered in the Nanoscience major who have completed at least 17.50 credits with a minimum cumulative average of 80%.</td>
<td>2 awards of $1,000</td>
</tr>
<tr>
<td>Frances M. Stretton Scholarship</td>
<td>Mrs. Frances M. Stretton</td>
<td>Students registered full-time in any program offered by the College of Social and Applied Human Sciences with a minimum of 75% cumulative average who are participating in curriculum-embedded experiential learning opportunities in the following academic year.</td>
<td>1 award of $3,000</td>
</tr>
<tr>
<td>Francis E. Chase Memorial Scholarship</td>
<td>Mrs. Jane M. Chase</td>
<td>Students who have completed semesters 4 or 6 of the B.Sc. program majoring in Food Science.</td>
<td>1 award of $300</td>
</tr>
<tr>
<td>Frank and Gertrude Hurnik Scholarship</td>
<td>Dr. Frank Hurnik</td>
<td>Students registered in the O.A.C. who are associated with the department of Animal &amp; Poultry Science and who undertake a project or attend a conference/scientific meeting or publish a paper in animal welfare or agricultural ethics may apply.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Fred Ramprashad Scholarship</td>
<td>The C.B.S. Alumni, ‘Annual Donation’</td>
<td>C.B.S. student with a high academic standing who has been nominated by the Department of Athletics Award Committee. The recipient should have achieved a minimum of 80% in the previous Winter and Fall semesters, which the CIAU recognizes as Academic-All-Canadian status, and made an exemplary contribution to the team(s).</td>
<td>1 award of $500 , and a Medal</td>
</tr>
<tr>
<td>Gary Ireland Horticultural Scholarship</td>
<td>Dr. Frank Hurnik, Professor Emeritus, and faculty member in Animal and Poultry Science from 1971 to 1997. Dr. Hurnik initiated work in behavioral studies and animal welfare at Guelph, developed the first course in Animal Welfare, and was co-founder and editor of the Journal of Agricultural and Environmental Ethics. Apply by letter to the Chair, Animal and Poultry Science, by May 15 outlining details of the project or meeting. The award will be given to the student who has the best presentation, paper or project. Preference is given to Graduate students.</td>
<td>Provided by Dr. Frank Hurnik, Professor Emeritus, and faculty member in Animal and Poultry Science from 1971 to 1997. Dr. Hurnik initiated work in behavioral studies and animal welfare at Guelph, developed the first course in Animal Welfare, and was co-founder and editor of the Journal of Agricultural and Environmental Ethics. Apply by letter to the Chair, Animal and Poultry Science, by May 15 outlining details of the project or meeting. The award will be given to the student who has the best presentation, paper or project. Preference is given to Graduate students.</td>
<td>1 award of $1,000</td>
</tr>
</tbody>
</table>

*IX. Scholarships and Other Awards, Bachelor of Science* | 253 |
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gaskin Medal in Marine and Freshwater Biology [C0432]</td>
<td></td>
<td>Established to honour Dr. David Gaskin, professor in the former Department of Zoology from 1968 - 1998, for his contribution to this field. Application is not required.</td>
<td>Department of Integrative Biology</td>
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<td></td>
<td></td>
<td>One award of a medal and a maximum of $500.</td>
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</tr>
<tr>
<td>George A. Farley Scholarship [I0099]</td>
<td>1 award of $250</td>
<td>Established in memory of George A. Farley, a chemistry graduate of the Class O.A.C.'33. This scholarship is presented to the student that demonstrates proficiency and academic achievement as evidenced by work term reports, work term assessments and course grades. Presented in the Winter semester. Application is not required.</td>
<td>James M. Farley</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Qualification(s): Student enrolled in a Co-op program administered by the Department of Chemistry with a cumulative average of at least 80% and who has completed their second work term within the preceding calendar year.</td>
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</tr>
<tr>
<td>George A. Gray O.A.C.'51 Varsity Scholarships [I0487]</td>
<td></td>
<td>Established in memory of George Gray, O.A.C.'51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.</td>
<td>Mrs. George A. Gray</td>
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<td></td>
<td>Donor(s): Mrs. George A. Gray</td>
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<td></td>
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<td>Qualification(s): In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.</td>
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<td></td>
<td>Amount: 2 awards of $1,250</td>
<td></td>
</tr>
<tr>
<td>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [I0677]</td>
<td></td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>George Ames</td>
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<td></td>
<td></td>
<td>Donor(s): George Ames</td>
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<td></td>
<td></td>
<td>Qualification(s): In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year.</td>
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<td>Amount: 1 award of $3,500</td>
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<tr>
<td>George I. Christie Prize [C0347]</td>
<td></td>
<td>The late George I. Christie, president of O.A.C. from 1928 to 1945, established a trust fund to provide this annual scholarship for graduate work. Applications approved by the Chair, Department of Animal and Poultry Science, should be submitted to the O.A.C. Dean's office by April 1.</td>
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<td></td>
<td></td>
<td>Donor(s): Trust Fund (late President George I. Christie)</td>
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<td></td>
<td>Qualification(s): Awarded to a student graduating with high standing in an animal and poultry science courses who proposes to pursue graduate studies in animal science at any institution of his/her choice.</td>
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<td>Amount: 1 award of $750</td>
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<tr>
<td>Gerd and Christel Baldauf Men's Basketball Scholarship [I0639]</td>
<td></td>
<td>Established by Christian Baldauf, BSc.'95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>Dr. Christian Baldauf</td>
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<td>Donor(s): Dr. Christian Baldauf</td>
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<td></td>
<td>Qualification(s): In-course student-athlete registered in the BSc. program who is a current member of the Men's Basketball varsity team and has achieved a minimum 70% average in the previous academic year.</td>
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<td>Amount: 1 award of $3,500</td>
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<tr>
<td>GIBCO/BRL Microbiology Research Excellence Prize [C0297]</td>
<td></td>
<td>This award is funded by an endowment provided by the GIBCO/BRL Enzyme Freezer Program. Nominations from Faculty supervisors should be submitted to the Chair of the Department of Molecular and Cellular Biology between April 15 and April 30 of each year.</td>
<td>Department of Molecular and Cellular Biology and the GIBCO/BRL Enzyme Freezer Program</td>
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<tr>
<td></td>
<td></td>
<td>Donor(s): Department of Molecular and Cellular Biology and the GIBCO/BRL Enzyme Freezer Program</td>
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<tr>
<td></td>
<td></td>
<td>Qualification(s): Undergraduate student who has produced and presented the best all round research project in MCB<em>4500 and/or MCB</em>4510 Research Project I and/or II in Microbiology.</td>
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<td>Amount: 1 award of $500</td>
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<tr>
<td>GlobalTox Scholarship for Academic Excellence [I0135]</td>
<td></td>
<td>Application is not required.</td>
<td>GlobalTox International Consultants Inc.</td>
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<td></td>
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<td>Donor(s): Student who is registered in the honours toxicology program and has the highest grade in Principles of Toxicology (TOX*2000).</td>
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<td>Qualification(s): Student who is registered in the honours toxicology program and has the highest grade in Principles of Toxicology (TOX*2000).</td>
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<td>Amount: 1 award of $500</td>
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<tr>
<td>Gonder Family Centre for Students with Disabilities Volunteer Scholarship [I0563]</td>
<td></td>
<td>In recognition of the many students who volunteer their time and talents to assist their colleagues registered with the Centre for Students with Disabilities (CSD) and to encourage others to do so, Dr. John and Mrs. Katherine Gonder provide this award to a student who has volunteered in the CSD. The award will be made on the basis of the volunteer activities undertaken by the student at the CSD, one letter of reference, and a personal statement that outlines the time commitment and types of volunteer activities undertaken as well as an indication of how this was a valuable and rewarding volunteer experience. Apply by January 15th to the CSD (c/o Advisor to Students with Disabilities) by submitting above documentation.</td>
<td>Dr. John and Mrs. Katherine Gonder</td>
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<td>Donor(s): Dr. John and Mrs. Katherine Gonder</td>
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<td>Qualification(s): All students registered in the College of Social and Applied Human Sciences (CSAHS) that have completed between 10.0 and 15.0 course credits with a minimum 70% cumulative average, and have been involved as volunteers with the CSD.</td>
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<td>Amount: 1 award of $900</td>
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<tr>
<td>Gordon Ashton Statistics Scholarship [I0543]</td>
<td></td>
<td>This scholarship is named in honour of Professor Gordon Ashton, a founding member of the Department of Mathematics and Statistics. A student may only be considered for this award once. Application is not required.</td>
<td>Department of Mathematics and Statistics and (retired) Professor Dixon More, C.P.E.S</td>
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<td></td>
<td></td>
<td>Donor(s): Department of Mathematics and Statistics and (retired) Professor Dixon More, C.P.E.S</td>
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<td>Qualification(s): Third year student majoring in Statistics (i.e., one who has completed a minimum of 10.0 credits up to a maximum of 14.75 credits) who has a cumulative average of at least 80% and the highest average over 80% on a minimum of 4.0 credits in year 2 (i.e., while earning 5.0 to 9.75 credits).</td>
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<td>Amount: 1 award of $750</td>
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<tr>
<td>Governor General's Medal [C0044]</td>
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<td>Established by the Office of the Governor General of Canada. Application is not required.</td>
<td>The Chancellery</td>
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<td>Donor(s): The Chancellery</td>
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<td>Qualification(s): Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.</td>
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<td>Amount: 2 awards of a Silver medal each</td>
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<tr>
<td>Graduation Medal in Nanoscience [C0752]</td>
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<td>The scholarships will be awarded to the students with the highest cumulative average. No application necessary.</td>
<td>Dean's Office College of Physical and Engineering Science</td>
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<td></td>
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<td>Donor(s): Dean’s Office College of Physical and Engineering Science</td>
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<td>Qualification(s): B.Sc. students who have graduated with a major in Nanoscience in the previous fall and winter semesters or will graduate with this major in the summer semester.</td>
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<td>Amount: 1 award of a medal</td>
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<tr>
<td>Greig Muir Memorial Scholarship [I0196]</td>
<td></td>
<td>Selection will be based on academic standing and demonstrated leadership ability as evidenced through participation in extracurricular activities with a preference given to a student who is a resident in the Province of Quebec. Apply by May 15 to the O.A.C. Awards Office with a letter outlining extracurricular involvement and participation.</td>
<td>The Jean Rich Foundation</td>
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<td>Donor(s): The Jean Rich Foundation</td>
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<td>Qualification(s): Students registered in the B.Sc. (Agri) program or Food Science major in the B.Sc. program with demonstrated extracurricular activities who have completed a minimum of 4.0 but not more than 7.5 credits.</td>
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<td>Amount: 1 award of $2,000</td>
<td></td>
</tr>
<tr>
<td>Gryphon Athletic Scholarships [I0631]</td>
<td></td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>University of Guelph</td>
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<td></td>
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<td>Donor(s): University of Guelph</td>
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<td></td>
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<td>Qualification(s): In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.</td>
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<td></td>
<td></td>
<td>Amount: various awards of $750 to $3,500</td>
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</table>
### IX. Scholarships and Other Awards, Bachelor of Science

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Guelph Soap Company Scholarship [I0288]** | Established by the Guelph Soap Company and awarded to the student with the highest average in BIQC*2580 and two courses in Organic Chemistry (CHEM*3750, 3750, 3760, 4720, 4730). Application is not required.  
**Donor(s):** Tricorp Chemical Specialties  
**Qualification(s):** Students registered in a major offered by the Department of Chemistry who have completed CHEM*3750 or CHEM*3760 during the previous calendar year and completed BIQC*2580.  
**Amount:** 1 award of $1,200 |
| **H.O. Shackleton Memorial Prize [C0255]** | Interested students should apply to the Chair of the Department of Molecular and Cellular Biology by April 1. The recipient will be selected by the Awards Committee of the College of Biological Science on the basis of the highest cumulative average grade amongst applicants who have not won a major scholarship (such as a NSERC or Ontario Government). Nomination will be made by the Department of Molecular and Cellular Biology at the end of the Winter semester.  
**Donor(s):** Mrs. H.O. Shackleton  
**Qualification(s):** Student graduating in the B.Sc. Microbiology (major or minor) and planning to pursue graduate studies in Microbiology at a recognized University.  
**Amount:** 1 award of $500 |
| **Highdale Farms Scholarship [I0348]** | Apply to Student Financial Services by May 15 with a letter demonstrating leadership ability as evidenced by extra-curricular involvements.  
**Donor(s):** Arthur Spoerri  
**Qualification(s):** Two awards are available for students in semesters 3 through 6 with at least a 75% cumulative average and whose primary area of study is related to the natural sciences. The first award is based on academic proficiency. The second award is based on academic proficiency and demonstrated leadership with preference given to students from Ottawa-Carleton, Dundas-Glengarry-Stormont, Grenville, Lanark, Prescott-Russell and Renfrew counties.  
**Amount:** 2 awards of $2,500 |
| **HK/HB Alumni Association Graduation Prize [C0452]** | The award recognizes a student who has contributed and provided leadership to the academic, administrative and social life of the department and the university, including academic activities (department/college committees, senate etc.), intramural and varsity athletics, support and assistance with class, college and university activities (such as HK/HB Symposium, College Royal etc.). Apply by letter and include a resume to the Department of Human Health and Nutritional Sciences.  
**Donor(s):** The HK/HB Alumni Association  
**Qualification(s):** Students graduating with the highest cumulative average in the courses NUTR*3210 Fundamentals of Nutrition and BIQC*2580 Introductory Biochemistry.  
**Amount:** 1 award of a Medal and an alumni life membership |
| **Honours Biochemistry Scholarship [I0128]** | This scholarship is donated by the faculty of the Department of Molecular and Cellular Biology through their scholarship trust fund and is awarded annually in the Winter semester. Application is not required.  
**Donor(s):** Department of Molecular and Cellular Biology  
**Qualification(s):** The student enrolled in the Biochemistry Honours program or the Biochemistry Co-op program that has completed a minimum of 10.0 credits with the highest cumulative average.  
**Amount:** 2 awards of $500 |
| **Honours Chemistry Scholarships [I0129]** | These scholarships are donated by the faculty of the Department of Chemistry through their scholarship trust fund and are presented to the students with the highest cumulative averages over four semesters in each of the three majors: Honours Applied Pharmaceutical Chemistry, Honours Biological Chemistry, and Honours Chemistry. Application is not required.  
**Donor(s):** Faculty of the Department of Chemistry  
**Qualification(s):** BSc.(Tech) or BSc. students registered in an honors major offered by the Department of Chemistry who have completed a minimum of 10.0 credits including 3.0 credits from CHEM courses.  
**Amount:** 3 awards of $500 |
| **Hugh Branion Memorial Scholarship [I0033]** | The scholarship will be awarded on the recommendation of the Department of Human Health and Nutritional Sciences, based on academic achievement in the first 7 semesters. This scholarship is not tenable with the Brian L. Walker Memorial Scholarship. Application is not required.  
**Donor(s):** Friends of Dr. Hugh Branion  
**Qualification(s):** Student registered in semester level 8 in B.Sc. Nutritional and Nutraceutical Sciences major in the winter semester.  
**Amount:** 1 award of $500 |
| **Hypercube Scholar Prize for Excellence in Chemistry [C0527]** | Established to recognize the student graduating with the highest cumulative average in any chemistry program offered by the Department of Chemistry. Application is not required.  
**Donor(s):** Hypercube Inc.  
**Qualification(s):** Students graduating (or have graduated in the fall or winter of the current academic year) from a four-year degree program offered by the Department of Chemistry.  
**Amount:** A award of a plaque and a molecular modelling software package |
| **International Undergraduate Scholarship [I0577]** | Established through a student referendum approved by the undergraduate student body, to recognize international students’ academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University and two academic and/or professional references. This award can only be held once by the student.  
**Donor(s):** International Student Organization (ISO)  
**Qualification(s):** Full-time International students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%.  
**Amount:** 2 awards of $2,000 |
| **Isabella Anderson Conway Scholarship [I0286]** | Awarded to the student who has achieved the highest combined average in the courses NUTR*3210 Fundamentals of Nutrition and BIQC*2580 Introductory Biochemistry. Application is not required.  
**Donor(s):** Mr. Charles Abbott Conway  
**Qualification(s):** Students registered in a major offered by the department of Nutrition and Nutraceutical Sciences that has completed a minimum of 12.5 credits but no more than 15.0 credits.  
**Amount:** 1 award of $500 |
| **J.B. Reynolds Graduation Medal in Physics [C0399]** | This medal is awarded to a graduating student in the Spring semester or the previous Fall or Winter Semesters. Application is not required.  
**Donor(s):** Department of Physics  
**Qualification(s):** Student who has completed semester 8 of any of the majors in Physics and who has obtained the highest cumulative average in the required Physics courses of that program, normally taken in semester 5 to 8.  
**Amount:** 1 award of a Medal |
| **J.D. Cunningham Industrial Scholarship [I0287]** | Apply to the O.A.C. Awards Office by May 15. Work experience in industrial microbiology, participation in extracurricular activities and demonstrated leadership skills will be considered in the selection.  
**Donor(s):** J.D. Cunningham  
**Qualification(s):** Students who have completed semester 6 in Food Science with a minimum cumulative average of 75%.  
**Amount:** 1 award of $900 |
| **J.L. Campbell Scholarship [I0479]** | Established in honour of J.L. (Iain) Campbell, former Provost and Vice-President (Academic), of the University of Guelph from 1995 to 2000 and former Dean of the College of Physical and Engineering Science from 1987 to 1995. Application is not required.  
**Donor(s):** Family, friends and colleagues of J.L. Campbell  
**Qualification(s):** Student who is currently registered in one of the majors in Physics and who has completed at least 12.50 credits, with a high cumulative average (at least 80%) in the required Physics courses normally taken in Year 2 and 3 of the major.  
**Amount:** 1 award of $1,000 |
<table>
<thead>
<tr>
<th>J.M. Christie Prize [C0213]</th>
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<tbody>
<tr>
<td>Application is not required.</td>
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<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<td><strong>Amount:</strong></td>
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<tr>
<th>J.W. Skinner Medal in Social Science [C0260]</th>
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<tbody>
<tr>
<td>Established in honour of the many contributions of Dr. J.W. Skinner, a former Dean of the College of Social Sciences. Application is not required.</td>
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<tr>
<td><strong>Donor(s):</strong></td>
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<tr>
<td><strong>Qualification(s):</strong></td>
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<tr>
<th>Jack and Lillian MacDonald Scholarship [E0379]</th>
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<tr>
<td>Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.</td>
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<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<tr>
<th>Jack K. Barclay Physiology Scholarship [I0491]</th>
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<tr>
<td>Established in honour of Professor J.K. Barclay, Director of the School of Human Health from 1989-1991. He was the first chair of the Department of Human Health and Nutritional Sciences from 1996-2001 and was involved in creating, teaching and implementing HK*3940 Human Physiology. Apply by February 1st to the Chair, Department of Human Health and Nutritional Sciences, with a letter outlining leadership contributions to the University and the community.</td>
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<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<td><strong>Amount:</strong></td>
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<tr>
<th>James L. Hunt Scholarship [I0603]</th>
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<tbody>
<tr>
<td>Established on honour of Professor Emeritus James L. Hunt, Medal of Merit recipient. The recipient will have achieved the highest cumulative average over 80%. This award cannot be held with any other awards offered by the Department of Physics. Application is not required.</td>
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<tr>
<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<td><strong>Amount:</strong></td>
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<tr>
<th>James L. Mottin Prize for Academic and Extracurricular Excellence [C0344]</th>
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<tr>
<td>Provided by the Department of Psychology to recognize its nominee for the Winegard Medal. Apply to the Department of Psychology Undergraduate Academic Counsellor by January 15th, including a list of extracurricular activities.</td>
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<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<tr>
<th>Jim Stokman Memorial Scholarship [I0386]</th>
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<td>Mrs. Stokman and family, including her sons Nick (O.A.C.'77) and Andrew (O.A.C.'84) have established this award in memory of her husband and their father to recognize his lifetime contribution to the family farm. Apply by May 15th to the OAC Awards Office with a letter that indicates rural background and demonstrated community/student involvement both during high school and the first two semesters of University.</td>
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<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<thead>
<tr>
<th>John A. Archibald Memorial Scholarship [I0014]</th>
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<tr>
<td>Awarded in memory of John A. Archibald, former Director of the Horticultural Research Institute of Ontario. Apply by May 15 to the OAC Dean's Office (Awards) with a letter listing courses taken in Land Resource Science along with an outline of your participation in any extracurricular activities.</td>
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<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<tr>
<th>John Burton Scholarship [I0642]</th>
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<tr>
<td>Established by Dr. John Burton, BSA 1962, a former faculty member in the Department of Animal and Poultry Science. Selection will be based on involvement with and contribution to the horse industry, future career aspirations in the horse industry sector and participation in community activities. Preference will be given to student who have demonstrated leadership ability within the student body. Apply by May 15 to the OAC Awards Office with a letter, of no more than two-pages, outlining involvement with and contributions to the horse industry, career aspirations, and extracurricular involvements. Awarded in the fall semester.</td>
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<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<tr>
<th>John Eccles Scholarship [I0093]</th>
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<tr>
<td>Apply to Student Financial Services, by May 15, with a letter highlighting leadership abilities through participation on residence life. Providing a reference letter would be an asset.</td>
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<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<tr>
<th>John T. Powell Scholarship [I0237]</th>
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<tbody>
<tr>
<td>Apply to the Department of Human Health and Nutritional Sciences (H.H.N.S.) main office by February 15 with a letter outlining participation in extra-curricular on campus activity and contributions made to the annual HHNS Symposium at the organizational and/or operational level.</td>
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<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<tr>
<th>Kae and Gordon Skinner Memorial Scholarship [C0258]</th>
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<tbody>
<tr>
<td>Provided by the late Kae Stalker Skinner (Mac '30) and Gordon Skinner (O.A.C.'24), former Registrar of the Ontario Institute of Agrologists. Consideration will be given to participation in the Student Branch of the Ontario Institute of Agrologists. Apply to the O.A.C. Awards Office by April 1 with a letter demonstrating contributions to agrology.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
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<td><strong>Qualification(s):</strong></td>
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<td><strong>Amount:</strong></td>
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### Kelly Bertrand Cross Country Scholarship [I0684]

The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand

**Qualification(s):** Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $2,000

### Ken and Marilyn Murray Scholarship [I0734]

Dr. Kenneth G. Murray C.M., OAC BSA ’50 and Honourary Doctor of Laws ’96, and Mrs. Marilyn C. Murray, Mac BHSc ’55, established this scholarship. Selection will be based on significant prior contributions to and experience in community-based service.

Apply to the CSAHS Awards Committee by May 15th with a summary letter outlining prior contributions to and experience in community-based service, and how funds would be used to support participation in curriculum-embedded experiential learning opportunities in the following academic year.

**Donor(s):** Dr. Kenneth G. and Mrs. Marilyn C. Murray

**Qualification(s):** Full-time students registered in the College of Social and Applied Human Sciences with a minimum 75% cumulative average who are participating in curriculum-embedded community-based experiential learning in the province of Ontario in the following academic year will be eligible for this award.

**Amount:** 1 award of $2,000

### Kenneth James Berg Memorial Scholarship [I0370]

Established by Friends and Family in memory of Ken Berg, a 1982 C.B.S. Microbiology alumnus. The focus of this award reflects Ken's success in applied education in the work force. Nomination by the Microbiology Co-op Program Committee. Application is not required.

**Donor(s):** Family and friends of Ken Berg

**Qualification(s):** Students registered in the Microbiology co-op program in the C.B.S. who have completed all aspects of the third co-op work term.

**Amount:** 1 award of $1,000

### Kenneth W. Hammond Prize [I0045]

The evaluation of the student will be based on the final essay in the "Environmental Perspectives and Human Choice: 5000 Days" course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

**Donor(s):** Kenneth W. Hammond

**Qualification(s):** Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.

**Amount:** 1 award of $1,000

### Kevin Durie Memorial Scholarship [I0653]

Established in memory of Kevin Durie, BA ’93, by his family and friends. Selection will be based on demonstration of outstanding service as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

**Donor(s):** Christine Blake-Durie

**Qualification(s):** Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.

**Amount:** 1 award of $1,000

### Kip Hunter Prize [I0139]

For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

**Donor(s):** Faculty, students and staff of the Philosophy Department

**Qualification(s):** Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.

**Amount:** 1 Book prize

### Lambda Foundation Scholarship in LBGT Studies [I0591]

This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a given student only once. Projects must have been completed or research proposals accepted within the past calendar year.

Apply to the Dean of Arts by December 15th including the research proposal or completed project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.

**Donor(s):** Lambda Foundation and other donors

**Qualification(s):** Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.

**Amount:** 1 award of $1,000

### Lange and Prokipcak Chemistry Scholarship [I0528]

This scholarship was established by Professor Gordon L. Lange, Professor Joe M. Prokipcak, friends and colleagues. Professors Gordon L. Lange and Joe M. Prokipcak were valued members of the chemistry Faculty who retired in 2001. Their excellence in teaching was recognized within the university and nationwide, winning them a total of eleven teaching awards. This scholarship will be awarded to the student with the highest grade in CHEM*1040, 1050, and 2700. Application is not required.

**Donor(s):** Professor Gordon L. Lange, Professor Joe M. Prokipcak and friends and colleagues

**Qualification(s):** Student registered in any program offered by C.P.E.S. who has completed CHEM*1040, CHEM*1050, CHEM*2700 and have completed a minimum of 10.0 credits up to a maximum of 14.75 credits.

**Amount:** 1 award of $1,000

### Larry Pearson Men's Volleyball Athletic Scholarships [I0618]

Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men's varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson

**Qualification(s):** In-course student-athlete who is a current member of the men's varsity volleyball team and has achieved a minimum 70% average in the previous academic year.

**Amount:** several awards up to $3,500

### Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [I0732]

Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Maryam Latifpoor-Keparoutis

**Qualification(s):** Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year.

**Amount:** 1 award of $1,200

### Leibniz/Newton Scholarship [I0156]

Established in honour of two founding fathers of calculus. Awarded in the Fall semester. Not tenable with the T.D. Newton Memorial Scholarship. Application is not required.

**Donor(s):** The Department of Mathematics and Statistics

**Qualification(s):** A second year student majoring in mathematics or statistics (i.e. one who has completed a minimum of 5 credits up to a maximum of 9.75 credits) who has a cumulative average of at least 80% and the highest grades over 80% in MATH*1200 and MATH*1210. A student may be considered for this award only once.

**Amount:** 1 award of $500
Leonard Conolly Exchange Student Scholarship [I0446]
Established by students, faculty, staff and friends to honour Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.
Donor(s): Students, staff, faculty and friends of Dr. Leonard Connolly
Qualification(s): Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).
Amount: 1 award of $1,000

Lionel Bradley Pett Scholarships [I0486]
This scholarship was established through the generosity of Dr. Lionel Bradley Pett, an O.A.C.'30 alumnus, and a life-long contributor to nutritional sciences in Canada, to recognize academic excellence. Application is not required.
Donor(s): Lionel Bradley Pett
Qualification(s): Full-time B.Sc. students who have declared a major offered by the Department of Human Health and Nutritional Sciences. The awards are allocated to the three students, with the highest cumulative averages, who have completed 5.0, 10.0 and 15.0 to 15.75 credits respectively.
Amount: 3 awards of $2,500

Lloyd Dorr Memorial Hockey Scholarship [I0708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.
Donor(s): Family and Friends of the late Lloyd Dorr
Qualification(s): Current member of the men’s varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,000

MacKenzie Scholarship [I0398]
In honour of University Professor Emeritus Innes K. MacKenzie. Not tenable with the Eggestaff Scholarship. Application is not required.
Donor(s): Department of Physics
Qualification(s): Students who have completed 12.5 course credits and are currently registered in one of the majors in physics. It is given to a student with a high cumulative standing (of at least 80%) in the required physics courses normally taken in Years 2 & 3 of the major.
Amount: 1 award of $1,000

MacNaughton Scholarship [I0422]
Established by Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Application is not required.
Donor(s): Earl B. MacNaughton
Qualification(s): Student who has completed semester 5 and is currently registered in one of the majors in Physics and has a high cumulative average (at least 80%) in the required Physics courses normally taken in semesters 3, 4 and 5 of the major.
Amount: 1 award of $500

Mae McEwen Memorial Scholarship [I0185]
Apply to the OAC Awards office by May 15.
Donor(s): The estate of Mae McEwen
Qualification(s): Student who has completed semester 6 of the Environmental Biology major in the B.Sc. or B.Sc. (Env.) programs with a cumulative average of 80% or better. Participation in extra curricular activities related to environmental issues will be considered in determining the recipient.
Amount: 1 award of $500

Marion McKenzie Scholarships for Outstanding Achievement in History [I0470]
These prizes have been established in memory of Marion McKenzie (1905-1994), a teacher who had a love of learning and a continuing curiosity about the world both past and present. These are awarded to the top student in each of the required core courses in the History program (HIST*1010, HIST*2450, HIST*2602 ). Application is not required.
Donor(s): TBA
Qualification(s): The recipient for HIST*1010 must have completed no more than 5.0 credits; the recipient for HIST*2450, no more than 10.0 credits and be in the history program; and the recipient for HIST*2602, no more than 10.0 credits.
Amount: 3 awards of $400

Mathematics Graduation Prize [C0182]
Awarded at Summer Convocation. Application is not required. One award of $250 and a commemorative plaque.
Donor(s): Faculty members, who will be anonymous, through the College of Physical Science and Engineering Expendable Scholarship Fund
Qualification(s): The graduating student who has majored in mathematics and who, in the past year has graduated from an honours degree program with the highest cumulative average over 80%.
Amount: 1 award of $250, 1 Commemorative plaque

Men's Basketball Scholarships [I0638]
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
Donor(s): Anonymous (Alumnus)
Qualification(s): In-course student-athlete who is a current member of the Men's Basketball varsity team and has achieved a minimum 70% average in the previous academic year.
Amount: 4 awards of $2,500

Men's Soccer Alumni Scholarship [I0771]
Made possible by the generous contributions of Men's Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.
Donor(s): Mr. Paul Wombwell (on behalf of the Men's Soccer Alumni Committee)
Qualification(s): Current member of the Gryphon Men's Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: several awards ranging in value from $1,000 to $3,500

Michael DiGirolamo Scholarship [I0571]
Established in memory of Michael DiGirolamo, a second year biology student, who passed away in 2004. Michael was very involved in student activities and was recruited as a TA in Italian Studies while at the University. Preference will be given to students with an active interest in language studies. Selection will be based on a combination of academic achievement and demonstrated active involvement in student activities. Apply by May 15 to the O.A.C. Awards Committee with a letter of no more than two pages outlining involvement in student life and active interest in language studies.
Donor(s): Friends and family of Michael DiGirolamo
Qualification(s): Students majoring in Animal Biology with a minimum cumulative average of B+ and a minimum 10.0 course credits completed.
Amount: 1 award of $1,000

Monroe Landon Memorial Prize [C0153]
Preference will be given to a student residing in the region of Halidnand Norfolk. Apply by letter, with a transcript, to the Chair, Department of Integrative Biology by January 31 indicating experience in the field of botany/conservation.
Donor(s): The friends of Monroe Landon
Qualification(s): Students that have completed a minimum of 17.0 credits in honours Plant Biology or Plant Science or Ecology with a minimum cumulative average of 70% and demonstrates an active interest in the conservation of native species and field research.
Amount: 1 award of $550
Nathan Max Goldman Choir Scholarships [I0774]
Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and/or the Chamber Choir. One award will be available to a student in each choir and will be given to the candidate who best combines high vocal achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required as a recommendation by Choir Director will be made to the SOFAM Awards Committee.

Donor(s): Mrs. Anne Goldman and the family of Nathan Max Goldman
Qualification(s): Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and/or the Chamber Choir and have been a member of the University of Guelph Choirs for at least two years.
Amount: 2 awards of $1,000

O.A.C. ’55 Scholarships [I0064]
Provided by the class of O.A.C. ’55. Recipients will have made an outstanding contribution to College life through academic proficiency and participation in extracurricular activities and can be considered to have done the most for the College, for fellow students and in their personal development. Apply by May 15 to the OAC Dean’s Office (Awards) with a letter outlining your participation in Class/College/University activities. Awarded in the fall semester.

Donor(s): O.A.C. ’55
Qualification(s): Students registered in any O.A.C. degree program or students registered in the B.ENG. program that have completed a minimum of 10.0 with at least a 70% cumulative average.
Amount: 1 award of $2,000

O.A.C. Centennial Graduate Prizes [C0209]
The Ontario Agricultural College celebrated its 100th Anniversary in 1974. Many organizations and companies associated with the agricultural industry provided funds in conjunction with the Centennial activities. Funds have been established in perpetuity as a permanent commoration of the Centennial of the College. Apply to OAC Awards Office by April 1 with a letter outlining extracurricular activities. Selection will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the student’s university career.

Donor(s): Dean, O.A.C.
Qualification(s): Students graduating from a degree program administered by the Ontario Agricultural College and who plan to pursue graduate studies in any department or school of the Ontario Agricultural College in the year of baccalaureate graduation. The fellowship will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the student’s university career.
Amount: 1 award of $2,200

O.A.C. Students’ Federation Medal [C0217]
Application is not required.

Donor(s): O.A.C.
Qualification(s): Graduating student in an undergraduate degree program in a major in an O.A.C. department who has been an outstanding leader in student activities at the College level throughout his or her University career.
Amount: 1 award of a Medal

Ontario Dairy Council Prize [C0221]
The Ontario Dairy Council offers this scholarship in honour of the late P. Bruce Scott. Application is not required.

Donor(s): Ontario Milk Distributors’ Association
Qualification(s): Student who shows proficiency in courses related to the market milk industry at the conclusion of the 8th semester level of the Food Science program.
Amount: 1 award of $1,000

Ontario Food Processors Association Scholarship [C0222]
This award is offered by the Ontario Food Processors’ Association. Application is not required.

Donor(s): Ontario Food Processors’ Association
Qualification(s): Most outstanding student of the graduating class of Food Science major who has shown proficiency in courses related to food processing.
Amount: 1 award of $1,000

Ontario Food Protection Association Scholarship [I0223]
Apply to the O.A.C. Awards Office by May 15.
Donor(s): Ontario Food Protection Association
Qualification(s): Student majoring in Food Science entering the 7th semester with a minimum cumulative standing of 70%. Priority will be given to students who have demonstrated academic proficiency in quality assurance, and who have participated in extra curricular activities.
Amount: 1 award of $1,000

Peter Mann Scholarship for Embryology [I2032]
Provided by colleagues and friends of Dr. Mann, a scholar and teacher of Embryology from 1954-1987. Application is not required.

Donor(s): Colleagues and friends of Dr. Mann
Qualification(s): Student from any degree program completing the course BIOM*3040 (Biomedical Embryology), with the highest academic standing.
Amount: 1 award of $100

Pharmacy & Upjohn Scholarship in Microbiology [I0295]
Offered in the Winter Semester by the Pharmacy Company of Canada. Not tenable with the Shutt Memorial Scholarship. Application is not required.

Donor(s): Pharmacy & Upjohn International Inc.
Qualification(s): Student enrolled in the B.Sc. Microbiology major who has completed the 7th semester level with the highest cumulative average in those core courses offered by the Department of Molecular and Cellular Biology.
Amount: 1 award of $500

Priscilla and Stanford Reid Trust Prize [I0597]
Established in honour the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written about the history of Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.

Donor(s): Priscilla and Stanford Reid Trust Fund
Qualification(s): Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.
Amount: 1 award of $500

Professional Staff Association Scholarship [I0628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 by sending an email to awards@registrar.uoguelph.ca and include the name of the family member of the Professional/Managerial Group of the University, and/or retired Professional/Managerial Group of the University of Guelph. This award may be held more than once, however, not in consecutive years. Preference will be given to students of current or retired P.S.A. members.

Donor(s): Professional Staff Association
Qualification(s): Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.
Amount: 1 award of $1,500

Professor Victor Matthews Track and Field Scholarships [I0707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete up to 10 3500 each

Psychology Core and Methodology Scholarship [I0345]
Provided by the Department of Psychology. Application is not required.

Donor(s): The Department of Psychology
Qualification(s): Student enrolled in the B.A. honours program or the honours specialization in the B.Sc. program majoring in Psychology who has completed PSYC*2010 and PSYC*2360 and the Psychology core course requirements.
Amount: 1 award of $200
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<th>Scholarship Name</th>
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<th>Qualification(s)</th>
<th>Donor(s)</th>
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<tr>
<td>Psychology Honours Thesis Prize [I0343]</td>
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<td>Provided by the Department of Psychology. The winning thesis is selected from nominations by thesis supervisors. Application is not required.</td>
<td>The Department of Psychology</td>
</tr>
<tr>
<td>Psychology Senior Honours Scholarship [I0342]</td>
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<td>Provided by the Department of Psychology. Award may be held once only. Application is not required.</td>
<td>Department of Psychology</td>
</tr>
<tr>
<td>R.A. Fisher Statistics Scholarship [I0102]</td>
<td></td>
<td>Established to honour one of the founding fathers of statistics, Awarded in the Full semester. Not tenable with the Year 3 Statistics Scholarship. Application is not required.</td>
<td>Faculty, students and other affiliates of the Department of Mathematics and Statistics. Application is not required.</td>
</tr>
<tr>
<td>R.C. Moffatt Memorial Scholarship in Mathematics or Statistics [I0536]</td>
<td></td>
<td>This scholarship was established by the Estate of Professor R.C. Moffatt. A student may be considered for this award in both third and fourth years. Application is not tenable with any other Department of Mathematics or Statistics scholarships. Application is not required.</td>
<td>Estate of Professor R.C. Moffatt</td>
</tr>
<tr>
<td>R.C. Moffatt Memorial Scholarship in Physics [I0535]</td>
<td></td>
<td>This scholarship is awarded in the winter semester to the student with the highest cumulative average over 80%. This award is not tenable with any other Department of Physics scholarships. Application is not required.</td>
<td>Estate of Professor R.C. Moffatt</td>
</tr>
<tr>
<td>Rachel Cliff Scholarship [I0790]</td>
<td></td>
<td>The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.</td>
<td>Mr. Ronald &amp; Nancy Cliff</td>
</tr>
<tr>
<td>Robert Harcourt Scholarships [I0121]</td>
<td></td>
<td>Established, by the estate of Mrs. R. Harcourt in memory of the late Dr. Robert Harcourt. Selection will be based on highest cumulative averages for those entering year 3 and year 4. One scholarship will be awarded to year 3 entering students and one to year 4 entering students. Application is not required.</td>
<td>Estate of Mrs. R. Harcourt</td>
</tr>
<tr>
<td>Robert Orr Lawson Second Year Microbiology In-course Scholarship [I0498]</td>
<td></td>
<td>Provided through a generous bequest from the estate of Robert Orr Lawson with matching support from the Department of Molecular and Cellular Biology to encourage study and research related to microbiology of foods. The scholarship is paid over three years in installments of $1,000. The second and third payments are contingent upon obtaining a minimum average of 77% over the previous two semesters of continued study in the major. Students who fail to qualify for a payment may re-qualify for the subsequent payment by obtaining a 77% or better average in the succeeding two academic semesters of full-time study. Apply to the Chair, Department of Molecular and Cellular Biology by May 15 if the intent is to continue the Microbiology major in the following September.</td>
<td>Department of Molecular and Cellular Biology and the estate of the late Robert Orr Lawson</td>
</tr>
<tr>
<td>Robert Orr Lawson Third Year Microbiology In-course Scholarship [I0499]</td>
<td></td>
<td>Provided through a generous bequest from the estate of Robert Orr Lawson with matching support from the Department of Molecular and Cellular Biology to encourage study and research related to microbiology of foods. The scholarship is paid over two years in installments of $1,000. The second payments is contingent upon obtaining a minimum average of 77% over the previous two semesters of continued full-time study (5 credits) in the major. Apply to the Chair, Department of Molecular and Cellular Biology by May 15 if the intent is to continue the Microbiology major in the following September.</td>
<td>Department of Molecular and Cellular Biology and the estate of the late Robert Orr Lawson</td>
</tr>
<tr>
<td>Ronald Ko Scholarship [I0151]</td>
<td></td>
<td>This scholarship represents income generated by a trust fund established by Dr. Ko. One annual award is presented in the Winter semester. Application is not required.</td>
<td>Dr. Ronald Ko, Department of Integrative Biology, University of Hong Kong</td>
</tr>
<tr>
<td>Russell Athletic Scholarships [I0722]</td>
<td>4 awards of $2,500</td>
<td>The recipients will be selected based on demonstrated leadership qualities and contributions to the team. Coaches will nominate students to the Athletic Awards Committee. No application necessary.</td>
<td>H.D. Brown Enterprises Ltd.</td>
</tr>
<tr>
<td>School of Environmental Sciences Academic Prize [C0425]</td>
<td></td>
<td>The student with the highest cumulative average will receive this award. Application is not required.</td>
<td>The School of Environmental Sciences</td>
</tr>
</tbody>
</table>

Last Revision: Oct. 19, 2012
IX. Scholarships and Other Awards, Bachelor of Science

School of Environmental Sciences Achievements Prize [C0426]
Apply to the O.A.C. Awards Office by April 1 with a letter of no more than 2 pages outlining contributions to student life and/or community activities. Selection will be made on academic achievement and demonstrated leadership ability.

**Donor(s):** The School of Environmental Sciences  
**Qualification(s):** Students who are graduating in June, or who have graduated in the previous two convocations, from any major in the School of Environmental Sciences with a minimum cumulative average of 70%.

**Amount:** 1 award of $1,000

Second Year Mathematics and Statistics Scholarship [I0739]
Selection will be made on the highest combined grades in MATH 1200 and MATH 1210. This award may only be held once. Application is not required.

**Donor(s):** Anonymous  
**Qualification(s):** Full time BA or BSc students registered in a major offered by the Department of Mathematics and Statistics who have completed between 5.0 and 9.75 credits with a minimum cumulative average of 75% and have completed MATH 1200 and MATH 1210 with grades over 80%.

**Amount:** 4 awards of $500

Second Year Nanoscience Scholarship [I0749]
The scholarships will be awarded to the students with the highest cumulative average. No application necessary.

**Donor(s):** Dean’s Office College of Physical and Engineering Science  
**Qualification(s):** B.Sc. students registered in the Nanoscience major who have completed between 7.50 and 9.75 credits with a minimum cumulative average of 80%.

**Amount:** 2 awards of $1,000

Sharon Marshall Memorial Prize [C0448]
Established by the family in memory of their daughter, Sharon Marshall, an undergraduate student from 1994-1997. The student with the highest cumulative average will be selected. Application is not required.

**Donor(s):** The family of Sharon Marshall  
**Qualification(s):** Students graduating, or who have graduated in the previous fall or winter semesters, from the Plant Science major of the B.Sc. program.

**Amount:** 1 award of $100, 1 Plaque

Shur-Gain, Nutreco Canada Inc. Scholarship [I0307]
Provided by Shur-Gain, a member of Nutreco Canada Inc. to a student that demonstrates high academic achievement and evidence of leadership and contribution to the university and/or community life. Apply by May 15 to the O.A.C. Awards Office with a letter of not more than 2 pages outlining leadership contributions. Awarded in the fall semester.

**Donor(s):** Shur-Gain  
**Qualification(s):** Students registered in Animal Science or Animal Biology majors who have completed between 8.0 and 11.0 credits.

**Amount:** 1 award of $750

Shutt Memorial Scholarship [I0257]
In honour of Professor D.B. Shutt and Dr. F.T. Shutt. Not tenable with the Upjohn Award. Application is not required.

**Donor(s):** Greta M. Shutt, B.Sc. (H.E.)  
**Qualification(s):** Awarded in the Winter semester to a student enrolled in the B.Sc. Microbiology major. The scholarship will be awarded on the basis of the highest cumulative average achieved over the 6 semester levels of the program.

**Amount:** 1 award of $500

Society of Chemical Industries Prizes in Biochemistry [C0478]
Application is not required.

**Donor(s):** Society of Chemical Industry  
**Qualification(s):** Students who have convocated from the Biochemistry Honours program or the Biochemistry Co-op program during the fall or winter semesters or will be convocating in the summer of the current academic year with the highest cumulative average.

**Amount:** 1 award of an engraved plaque and a 1 year subscription to SCT's magazine

Society of Chemical Industry Prizes in Chemistry/Applied Pharmaceutical Chemistry [C0333]
One plaque will be awarded to the Honours Chemistry student with the highest cumulative average and one plaque will be awarded to the student with the highest cumulative average in either Biological Chemistry or Applied Pharmaceutical Chemistry Honours programs. Application is not required.

**Donor(s):** Society of Chemical Industry  
**Qualification(s):** Students who have convocated from the Chemistry, Biological Chemistry or Applied Pharmaceutical Chemistry Honours programs during the fall or winter semesters or will be convocating in the summer of the current academic year. Students who obtain the highest standing in the final year in each of the B.Sc. majors honour Chemistry and the B.Sc.(Tech.) honours major Applied Pharmaceutical Chemistry.

**Amount:** 2 awards of an Engraved plaque

Society of Management Accountants of Ontario Scholarship [C0268]
The scholarship will be awarded at summer convocation. Application is not required. One award of $500 and a free course enrolment in the first complete CMA subject enrolled in the Society's program.

**Donor(s):** Society of Management Accountants, Grand River Chapter  
**Qualification(s):** Full-time student graduating from B.Comm., B.A. (minor in Business Administration), or B.Sc. (minor in Business Administration), or B.Sc.(Agr.) (major in Agriculture Business or Food Agriculture and Resource Economics), programs. Student with the highest average in the 2 courses Financial Accounting ACCT*2220 and Intermediate Accounting ACCT*3330.

**Amount:** 1 award of $500, and a free course enrolment in the first complete CMA subject enrolled in the Society's program

Speed River Physiotherapy Track and Field Scholarship [I0704]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Speed River Physiotherapy  
**Qualification(s):** Current member of the varsity cross-country and/or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete. Students must be registered in the Bio-medical Science or Human Kinetics major of the B.Sc. program and have completed a minimum of 15.0 credits.

**Amount:** 1 award of $1,500

Sprung Family Men’s Basketball Scholarship [I0672]
Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Mr. Timothy Sprung  
**Qualification(s):** In-course student-athlete who is a current member of the Men's basketball team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $3,500

Statistics Graduation Prize [C0508]
Awarded at Summer Convocation. Application is not required. One award of $250 and a commemorative plaque.

**Donor(s):** College of Physical and Engineering Science  
**Qualification(s):** The graduating student who has majored in statistics and who in the past year has graduated from an honours degree program with the highest cumulative average over 80%.

**Amount:** 1 award of $250, 1 Commemorative plaque

Stephanie Wilken Volunteer Scholarship [I0449]
Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to Student Financial Services with letter indicating the kind and extent of volunteer activities at the Wellness Centre by October 1. Selection committee is the Senate Committee on Awards on the recommendation of the Student Wellness Educator at the Wellness Centre.

**Donor(s):** Bev and Darlene Wilken  
**Qualification(s):** Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre.

**Amount:** 1 award of $1,000
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tatjana Schulz Vanegas Memorial Scholarship [I0746]</strong></td>
<td>Family and Friends of Tatjana Schulz</td>
<td>Full time students registered in the College of Biological Science (CBS), who have taken at least one botany course (BOT) and completed at least 10.00 credits with a minimum 70.0% cumulative average.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Ted Newton Memorial Scholarship [I0198]</strong></td>
<td>Family, friends and colleagues of Dr. T.D. (Ted) Newton</td>
<td>Student majoring in mathematics or statistics in year 2 (i.e. one who has completed a minimum of 5.0 credits up to a maximum of 9.75 credits) who has the highest average over 80% on a minimum of 4.0 credits in year 1 (i.e., while the first 4.0 to 4.75 credits are in progress. A student may be considered for this award only once.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td><strong>Thermodynamics and Kinetics Scholarship [I0743]</strong></td>
<td>Dr. John Goddard</td>
<td>BSc students in the Nanoscience or Chemical Physics major or any major offered by the Department of Chemistry who have completed CHEM*2820 with a grade of 80% or higher.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td><strong>Third Year Nanoscience Scholarship [I0750]</strong></td>
<td>Dean's Office College of Physical and Engineering Science</td>
<td>Students majoring in Nanoscience or Chemical Physics who have completed courses in Land Reclamation (e.g. CROP<em>2280, SOIL</em>3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.</td>
<td>2 awards of $1,000</td>
</tr>
<tr>
<td><strong>Thomas H. Peters Scholarship [I0233]</strong></td>
<td>Friends and associates of Thomas H. Peters</td>
<td>Students in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP<em>2280, SOIL</em>3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average.</td>
<td>1 award of $250</td>
</tr>
<tr>
<td><strong>Tom Mooney Scholarship [I0709]</strong></td>
<td>Various Donors</td>
<td>Students majoring in the varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.</td>
<td>Numerous awards ranging in value from $1,000 to $3,500</td>
</tr>
<tr>
<td><strong>Tony Anthony Prize in Comparative Vertebrate Anatomy [I0282]</strong></td>
<td>Tony Anthony Memorial Fund</td>
<td>Students who achieve the highest grade in course ZOO*2090, Vertebrate Structure and Function.</td>
<td>1 award of $125</td>
</tr>
<tr>
<td><strong>Toronto District Beekeeper's Association Scholarship [I0285]</strong></td>
<td>Mr. Jack Robinson</td>
<td>The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>Tucker Scholarship for Women in Mathematics and Statistics [I0483]</strong></td>
<td>Emma Tucker, B.Sc. ‘96</td>
<td>Students registered in any degree or associate diploma program at any University or outside community.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>United Steelworkers Local 4120 Scholarship [I0293]</strong></td>
<td>United Steelworkers LU4120</td>
<td>Students registered in any degree or associate diploma program at any University or outside community.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>University of Guelph Alumni Legacy Scholarship [I0735]</strong></td>
<td>Various donors c/o University of Guelph Alumni Association Memorial Fund</td>
<td>Students registered in any degree or associate diploma program at any University or outside community.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]</strong></td>
<td>Mr. &amp; Mrs. J. Van Stralen &amp; family and Mr. &amp; Mrs. Hans Van Der Hoeven &amp; family</td>
<td>Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.</td>
<td>2 awards of $400</td>
</tr>
<tr>
<td><strong>W. H. Boyd Scholarship [I0335]</strong></td>
<td>Douglas L. Woolley, M.D. &amp; B.Sc.(H.K.) Alumni Association</td>
<td>Student enrolled in the Human Kinetics major who has completed Human Anatomy and who has made leadership contributions to the University or outside community.</td>
<td>1 award of $1,000</td>
</tr>
</tbody>
</table>
W. Harold Minshall Scholarship [I0451]
Provided by Dr. W.H. Minshall (O.A.C. ’33). Apply by May 15th to the OAC Awards Office with a letter indicating interest and aptitude in crop protection, particularly in weed biology and management, and listing extra-curricular involvements. Awarded on the basis of academic standing in the relevant courses and participation in extra curricular activities.

**Donor(s):** O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall
**Qualification(s):** O.A.C. students in the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree programs who have completed semester level 6 are eligible. Interest and aptitude in crop protection, particularly in weed biology and management. Interest in crop protection and achievement in courses such as CROP*4240, ENVB*3030, ENVB*3210, ENVB*4100, and ENVB*4240 will be considered.

**Amount:** 1 award of $1,100

W.C. Winegarden Medal [C0311]
The W.C. Winegarden Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** The Board of Governors of the University
**Qualification(s):** Graduating student who excels both academically and in extracurricular activities.

**Amount:** 1 award of a Gold medal

W.N. Vaughan Medal [C0299]
Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** Friends of Walter N. Vaughan
**Qualification(s):** Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.

**Amount:** 1 award of a Medal

Wally Fraser Mathematics Scholarship [I0544]
This scholarship is named in honour of Professor Wally Fraser, a founding member of the Department of Mathematics and Statistics. A student may only be considered for this award once. Awarded in the Fall semester. Application is not required.

**Donor(s):** The Department of Mathematics and Statistics and (retired) Professor Dixon More, C.P.E.S.
**Qualification(s):** Third year student majoring in mathematics (i.e., one who has completed a minimum of 10.00 credits up to a maximum of 14.75 credits) who has a cumulative average of at least 80%, and the highest average over 80% in a minimum of 4.00 credits in year 2 (i.e., while earning 5.0 to 9.75 credits).

**Amount:** 1 award of $750

Waterloo-Wellington CA Association Scholarship [I0367]
Provided by the Waterloo-Wellington Chartered Accountant’s Association. Application is not required.

**Donor(s):** Waterloo-Wellington Chartered Accountants Association
**Qualification(s):** Student who achieves the highest academic standing in the course ACCT*3330, Intermediate Accounting.

**Amount:** 1 award of $100

William P. Weber Football Scholarship [I0634]
Established by Dr. William P. Weber, OVC ’59, football alumni and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. William P. Weber
**Qualification(s):** In-course student-athlete who is a current member of the Men’s Football team and achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $2,500

Wilma Hollywood Memorial Scholarship [I0509]
Established by the Department of Psychology, in honour of the late Wilma Hollywood, a long-serving staff member. Application is not required.

**Donor(s):** Department of Psychology
**Qualification(s):** Student majoring in Psychology in either the B.A. or B.Sc. program who has achieved the highest cumulative average in the core courses.

**Amount:** 1 award of $200

Year 3 Mathematics Scholarship [I0506]
Awardsed in the Fall semester. Application is not required.

**Donor(s):** The Department of Mathematics and Statistics
**Qualification(s):** Fourth year student majoring in mathematics (i.e., one who has completed a minimum of 15.00 credits up to a maximum of 19.75 credits) who has a cumulative average of at least 80%, and the highest average over 80% in a minimum of 4.00 credits in year 3 (i.e., while earning 10.0 to 14.75 credits). A student may be considered for this award once only.

**Amount:** 1 award of $750

Year 3 Statistics Scholarship [I0507]
Awardsed in the Fall semester. Application is not required.

**Donor(s):** The Department of Mathematics and Statistics
**Qualification(s):** Fourth year student majoring in statistics (i.e., one who has completed a minimum of 15.00 credits up to a maximum of 19.75 credits) who has a cumulative average of at least 80%, and the highest average over 80% in a minimum of 4.00 credits in year 3 (i.e., while earning 10.0 to 14.75 credits). A student may be considered for this award once only.

**Amount:** 1 award of $750

In-course Scholarships with Financial Need

3M Canada Scholarships [I0564]
Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** 3M Canada Company
**Qualification(s):** Students entering Year 4 (i.e., having completed a minimum of 15.00 credits) with demonstrated financial need and high academic achievement.

**Amount:** various award of up to $4,000

Alf and Mary Hales Undergraduate Scholarship in Food Science [I4510]
Alf and Mary Hales, with the assistance of the Ontario government’s OSOTF program have established this scholarship to Food Science students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. To be considered for this award you must indicate it on the N.A.F. and include a statement outlining your interest in Meat Science. ACCESS AWARD.

**Donor(s):** Alf and Mary Hales
**Qualification(s):** Student registered in semesters 5 to 8 of the B.Sc. program in Food Science with a demonstrated interest in Meat Science and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award.

**Amount:** 1 award of $1,000
Athletic Club Scholarship for Human Kinetics [14404]
The award will be given to the student with the highest cumulative average. Apply with a completed Financial Need Assessment Form to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** Athletic Club Group with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Full-time students registered in the Human Kinetics major who have completed at least 10.0 credits. With demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $1,000

Barbara A. Bowen Scholarship [14390]
Established by Barbara A. Bowen, MAC ’57. Preference will be given to students registered in Department of Family Relations and Nutrition. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** Barbara A. Bowen with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students who have a minimum 75% average and are registered in any program in the College of Social and Applied Human Science with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $4,500

Brian Kenneth Howard Memorial Scholarship [14548]
Established by Kenneth and Irene Howard in memory of their son, Brian Kenneth Howard. Awarded to a student assessed as having financial need with a preference given to students from York, Durham or Simcoe counties. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** Kenneth and Irene Howard with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Student registered in any degree program with a minimum 75.0% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $2,700

C.B.S. ACCESS Scholarships [14526]
Established by Alumni and friends of C.B.S., with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. Awar ded to the students with the highest cumulative average. Not tenable with the Hagen Undergraduate Access Scholarship. ACCESS AWARD

**Donor(s):** Alumni and friends of C.B.S. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in any major in C.B.S. with a minimum of 10.0 credits completed and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $500

C.P.E.S. Dean's Scholarship - ACCESS [14527]
Established with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. This award may be held only once. ACCESS AWARD

**Donor(s):** Established by a number of industrial, commercial and public sector corporations with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need registered in any major program in C.P.E.S. in, or beyond, second year. A minimum 80% cumulative average is required. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $800

CIBC Health and Science Scholarships [14402]
Established by CIBC with aid of the Ontario government’s OTSS program. Apply by October 7 to Student Financial Services by submitting a completed Financial Need Assessment Form and a CIBC Health and Science Scholarship Application Form. Preference will be given to an equitable distribution of the awards across the areas of human health and nutritional sciences, molecular and cellular biology and integrative biology. Should no successful candidate be available in one area the awards will be distributed to the other areas. Selection will be based on academic standing and relevance of the research project proposal. ACCESS AWARD

**Donor(s):** CIBC with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students registered in any major offered by the College of Biological Science who have completed at least 7.5 credits with a minimum cumulative average of 75% and who plan to participate in a research project related to biological aspects of cancer with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 5 awards of $5,000

City of Guelph 175th Anniversary Scholarship [10515]
Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.

**Donor(s):** The Guelph Community Foundation

**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 70.0% cumulative average, demonstrated volunteer leadership on campus and/or in the community and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian citizens or permanent residents at the time of application.

**Amount:** 1 award of $2,000

Earl B. MacNaughton C.P.E.S. ACCESS Scholarships [14172]
Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical and Engineering Science, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Earl B. MacNaughton with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students currently registered in the final year of an honors program in the College of Physical and Engineering Science with high academic standing, demonstrated financial need, and who have completed a minimum of 15.0 credits. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,000

Eleanor Morgan & Bill Archibald Scholarships [14540]
The family of Eleanor and Bill Archibald, with the assistance of the Ontario government's OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** The Family of Eleanor & Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $1,000
Erin Demers Memorial Scholarship [10406]
The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.
Donor(s): Family and friends of Erin Katrina Demers
Qualification(s): Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.
Amount: 1 award of $1,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [14546]
Established by Ernest Kendall, O.A.C. BSA 1932, with the assistance of the Ontario government's OSOTF program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award you must list it on your N.A.F. Selection will be made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD
Donor(s): Ernest Kendall with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students with demonstrated financial need who are members of the women's varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,350

Euclid-Hitachi Scholarships [14517]
Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD
Donor(s): Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Gordon Ashton Scholarship [14535]
Established in memory of Prof. Gordon Ashton, member of the Department of Physics and Mathematics (1956-1966) and the Department of Mathematics and Statistics (1966-1986), with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD
Donor(s): C. Dixon More with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): All statistics majors who have completed a minimum of 10.00 credits with a cumulative average of at least 70% and who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $500

Graham, Fraser and Trevor Bosch Scholarships in Chemistry [14288]
Established by Mr. Martin Bosch of the Guelph Soap Company, with the assistance of the Ontario government's OSOTF program. Of the recipients with demonstrated financial need, preference will be given to Year 3 students with the highest cumulative averages in at least three 2000 level chemistry courses taken in Year 2. In the event that there are no qualified candidates in Year 3, students in Year 4 will be considered, based on demonstrated financial need and the highest cumulative averages in at least three 2000 level chemistry courses taken in Year 3. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.
Donor(s): Mr. Martin Bosch of the Guelph Soap Company with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students that have completed between 10.0 and 14.75 credits of an honours major program offered by the Department of Chemistry with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,200

Hagen Undergraduate Scholarship [14525]
Established by Rolf Hagen, founding president of Rolf C. Hagen Inc., Canadian pet food and products supplier, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. Awarded to the students with the highest cumulative average. ACCESS AWARD
Donor(s): Rolf C. Hagen with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students beyond semester 6 with demonstrated financial need. Awarded to the students with the highest cumulative averages in any major in the College of Biological Science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $800

Hung-So Chow Yuen Leadership Scholarship with matching funding through the Ontario Trust for Student Support program [14400]
This award was established in memory of Hung-So Chow Yuen, Stacey Yuen’s (CBS BSc Hon 2003 Alumni) late Grandmother. Apply to Student Financial Services by October 7 with a University of Guelph Financial Need Assessment Form along with a statement of up to 500 words outlining leadership and involvement in volunteer activities. Selection will be based on demonstrated exemplary leadership through involvement with on campus or off campus volunteer activities (student associations/charitable or non-profit organizations) as described in a statement. ACCESS AWARD.
Donor(s): John and Agnes Yuen
Qualification(s): Students registered in a program offered by the College of Biological Science who have completed between 5.0 and 17.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,500

Jay Majithia Scholarship [14518]
Provided to honour Professor Jay Majithia, in recognition of his support and leadership while a faculty member in the Department of Computing and Information Science, by Margaret Middleton, C.P.E.S. ’86 with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7 and attach a letter stating research interest and/or involvement. ACCESS AWARD.
Donor(s): Mrs. Margaret L. Middleton with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Computer and Information Science students with demonstrated financial need who have a minimum cumulative program average of 70%. Preference will be given to eligible students who are applying for, or participating in, departmental research, including a special project or an independent study option. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $500

Last Revision: Oct. 19, 2012
John Embry Family Scholarship [I4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.
Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program.
Qualification(s): Student-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $3,500.

Keith Ronald Undergraduate Scholarship [I4547]
Established in honour of Professor Keith Ronald, founding Dean of the College of Biological Sciences, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. Selection will be made based on the student with the highest cumulative average and demonstrated financial need. This award may only be held once. ACCESS AWARD.
Donor(s): Friends and Colleagues of Professor Keith Ronald with matching funding through the Ontario Student Opportunities Trust Fund.
Qualification(s): Full-time BSc students majoring in Marine and Freshwater Biology, with a minimum cumulative average of 70%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,500.

Landoni Athletic Scholarship [I4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD.
Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program.
Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000.

MacNaughton ACCESS Scholarship in Physics [I4523]
Established by Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science, and faculty, staff and alumni of the Department of Physics, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.
Donor(s): Earl B. MacNaughton and faculty, staff and alumni of the Department of Physics with matching funding through the Ontario Student Opportunities Trust Fund.
Qualification(s): Students with demonstrated financial need who are in second year or beyond of a major physics program with a minimum cumulative average of 80%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 4 awards of $1,000.

McCormick Canada Inc. Food Science Scholarship [I0410]
Provided by McCormick Canada Inc. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.
Donor(s): McCormick Canada Inc.
Qualification(s): Students in the B.Sc. Food Science major who have financial need. In-course students must have maintained at least a 70% cumulative average, while first semester students must have had a 70% average in high school science courses. Students may hold the award once unless there are no other eligible candidates in a subsequent year.
Amount: 1 award of $2,000.

Nora Spence Memorial Scholarship [I4394]
This scholarship was created by George and Jane Spence in memory of their daughter Nora Spence, O.A.C. B.Sc. ’06 with the aid of the Ontario government’s OTSS program. Selection will be based on high academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.
Donor(s): Jane and George Spence with matching funding through the Ontario Trust for Student Support program.
Qualification(s): BSc students registered in a major offered by O.A.C. who have a minimum cumulative average of 75% and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000.

O.A.C. ’52 Scholarships [I4538]
Offered by the class of O.A.C. ’52, with the assistance of the Ontario government’s OSOTF program. Apply by letter highlighting involvement in leadership and community activities and/or university life along with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.
Donor(s): O.A.C. ’52 with matching funding through the Ontario Student Opportunities Trust Fund.
Qualification(s): O.A.C. students enrolled in the B.Sc.(Agr.), B.Com., B.Sc., or B.Sc.(Env.) programs who have demonstrated financial need, who are in good academic standing and who have demonstrated leadership. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: several awards of up to $4,000.

R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [I0547]
Douglass (O.A.C. ’39) and Kathleen (MAC ’39) Kennedy met at a "hop" on campus in 1937 and later married. They established this scholarship to celebrate their time on campus and their 62 years of marriage. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.
Donor(s): Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy.
Qualification(s): This scholarship will be awarded to a student in O.A.C. with high academic achievement and demonstrated financial need.
Amount: 1 award of $900.

Residence Life Staff Scholarship [I0697]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.
Donor(s): Student Housing Services.
Qualification(s): Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.
Amount: 2 awards of $500.
<table>
<thead>
<tr>
<th>Scholarship/Nomination</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Returning Student Residence Scholarship [I0696]</td>
<td></td>
<td>Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.</td>
<td>Student Housing Services</td>
</tr>
<tr>
<td>promised funding through the Ontario Student Opportunities Trust Fund</td>
<td></td>
<td>Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
<td>Mr. Brock Chittim</td>
</tr>
<tr>
<td>Stephen Safe Scholarships in Toxicology [I4528]</td>
<td></td>
<td>Students receiving OSOTF program to honour the achievements of Prof. Stephen Safe, a former faculty member at the University of Guelph.</td>
<td></td>
</tr>
<tr>
<td>Tara Lynn Giuliani Memorial Scholarship [I0375]</td>
<td></td>
<td>Students registered in any degree program who plan to reside in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.</td>
<td></td>
</tr>
<tr>
<td>Tony and Anne Arrell Scholarships [I0686]</td>
<td></td>
<td>Students registered in any degree program who have completed a minimum of 2.0 credits with a minimum 80% cumulative average and demonstrated financial need.</td>
<td></td>
</tr>
<tr>
<td>University of Guelph Retiree Association Degree Scholarship [I0569]</td>
<td></td>
<td>Students with demonstrated financial need in an undergraduate toxicology program at, or beyond, semester 5. Applicants should have achieved a minimum 77% cumulative average in the science courses of the previous two academic semesters. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
<td></td>
</tr>
<tr>
<td>W. F. Mitchell Athletic Scholarship [I4550]</td>
<td></td>
<td>Students who have completed a minimum 10.0 credits and has taken or is taking HIST<em>2000 or HIST</em>2500, and at least one of the following: HIST<em>3030, HIST</em>3140, HIST<em>3530, HIST</em>4040, or HIST*4050. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
<td></td>
</tr>
<tr>
<td>Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [E4515]</td>
<td></td>
<td>Entering student athlete who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent, and demonstrated financial need.</td>
<td>Sheryl and David Kerr</td>
</tr>
<tr>
<td>Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [I4515]</td>
<td></td>
<td>Current member of the women’s varsity ice hockey team who is enrolled in an undergraduate program with a minimum 70% average or equivalent during the previous academic year as a student-athlete who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
<td>Sheryl and David Kerr</td>
</tr>
<tr>
<td>Scottish Studies Foundation Scholarship [I4541]</td>
<td></td>
<td>Provided with the assistance of the Ontario government's OSOTF program. Students will be required to meet the 70% average and demonstrated financial need.</td>
<td></td>
</tr>
<tr>
<td>Tony and Anne Arrell Scholarships [I0686]</td>
<td></td>
<td>Students with demonstrated financial need in an undergraduate toxicology program at, or beyond, semester 5. Applicants should have achieved a minimum 77% cumulative average in the science courses of the previous two academic semesters. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
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</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>W. F. Mitchell Athletic Scholarship [I4550]</td>
<td></td>
<td>Students who have completed a minimum 10.0 credits and has taken or is taking HIST<em>2000 or HIST</em>2500, and at least one of the following: HIST<em>3030, HIST</em>3140, HIST<em>3530, HIST</em>4040, or HIST*4050. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
<td>Sheryl and David Kerr</td>
</tr>
</tbody>
</table>
### Walter and Marion MacDougald Scholarship [I4530]

Established by the family of Walter and Marion MacDougald on the 50th wedding anniversary of their parents, in recognition of their gift of life-long learning to their five children, with the assistance of the Ontario government's OSOTF program. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.), and a letter that includes a statement that outlines your interests in food supply, utilization, farmland conservation or woodland management. Preference will be given to students enrolled in a program involved in food supply or utilization, farmland conservation or woodland management. ACCESS AWARD.

**Donor(s):** Doug MacDougald, D.V.M. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students demonstrating financial need with a minimum of 10.0 credits and less than 15.0 credits and who are in the following programs/majors/minors: BASc, BSc(Agr), BSc(Env), BSc(Food Science, Animal Biology, Nutrition, or Forest Science), or D.V.M., having a minimum cumulative average of 70%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $750

### Wellington Laboratories Scholarship [I4308]

Wellington Laboratories, with the assistance of the Ontario government's OSOTF program, established this award through an endowment provided by Mr. Brock Chittam of Wellington Laboratories. Of the recipients with demonstrated financial need, preference will be given to Year 4 students with the highest cumulative averages in at least three 3000 level chemistry courses taken in Year 3. In the event that there are no qualified candidates in Year 4, students in Year 3 will be considered, based on demonstrated financial need and the highest cumulative averages in at least three 2000 level chemistry courses taken in Year 2. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** Mr. Brock Chittam of Wellington Laboratories with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students that have completed a minimum of 15.0 credits of an honours major program offered by the Department of Chemistry with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,000

### William & Nona Heaslip Scholarship [I0589]

Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time (minimum 80% of a full course load) study. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** The William and Nona Heaslip Foundation

**Qualification(s):** Students that have completed 4.0 credits but no more than 6.0 credits in any degree program; are a Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financial need.

**Amount:** 2 awards of $15,000

### Yeandle Family Scholarships [I3546]

Provided by the Estate of Audrey Yeandle, a Mac'25 graduate and life-long supporter of the University, with the assistance of the Ontario government's OSOTF program. Awards will be made on the basis of financial need and academic achievement. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** The Estate of Audrey Yeandle with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in a program in the College of Social and Applied Human Sciences with a minimum cumulative average of 70%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards up to $2,000

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### In-course Bursaries

**Archie and Isabelle (Cook) Rintoul O.A.C. Bursary [I3060]**

Offered by Archie and Isabelle (Cook) Rintoul of O.A.C. ’26 and MAC ’27 respectively. Apply with a completed Financial Need Assessment Form (N.A.F.) by October 7 to Student Financial Services. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Archie and Isabelle (Cook) Rintoul

**Qualification(s):** Students registered in the department of Environmental Biology in the B.Sc., B.Sc.(Agr.) or the B.Sc.(Env.) degree programs who have completed a minimum of 10.0 credits and who have demonstrated financial need.

**Amount:** 1 award of $500

**Bette Stephenson Accessibility Bursary [I3054]**

In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student's advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

**Donor(s):** University of Guelph

**Qualification(s):** Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.

**Amount:** 3 awards to a maximum of $1,500

**Birks Family Foundation Bursary [I3002]**

Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Birks Family Foundation

**Qualification(s):** Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures.

**Amount:** 1 award of $1,000

**Brinson Partners Inc. Bursaries [I3526]**

Brinson Partners Inc., with the assistance of the Ontario government's OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

**Burnbrae Farms Bursaries [I3525]**

Established by Burnbrae Farms, with the assistance of the Ontario government's OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

**Catherine and Brian Berg Memorial Bursary [I3542]**

Established by the families of Brian and Cathy Berg, with the assistance of the Ontario government’s OSOTF program Apply by completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Families of Cathy and Brian Berg with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** C.B.S. student with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $500
<table>
<thead>
<tr>
<th>Award Title</th>
<th>Description</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceri Rich Bursary [I3055]</td>
<td>Established to assist students with an academic interest in animal nutrition. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form and a letter indicating interest in animal nutrition and including evidence of at least 2.0 credits completed in nutrition courses. This bursary may be held only once.</td>
<td>$6,000</td>
<td>Students registered in the Animal Biology major of the BSc program who have completed a minimum of 10.0 credits including 2.0 credits in nutrition courses and who have demonstrated financial need.</td>
<td>Jean Rich Foundation</td>
</tr>
<tr>
<td>Class of ’72: 25th Reunion Bursaries [I3512]</td>
<td>Established by the Class of ’72: 25th Reunion Fund with the assistance of the Ontario government’s OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.</td>
<td></td>
<td>Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Class of ’72: 25th Reunion Fund with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td>Class of ’33 Bursaries [I3531]</td>
<td>Established by the class of ’33 on the occasion of their 65th Anniversary, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.</td>
<td>$500</td>
<td>3 awards of $500</td>
<td>O.A.C. ’33</td>
</tr>
<tr>
<td>Class of ’36 Bursaries [I3501]</td>
<td>Established by the Class of ’36 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.</td>
<td></td>
<td>An O.A.C. degree student enrolled in any degree program who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Class of ’36 with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td>Credit Valley Conservation Authority Bursary [I3007]</td>
<td>Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.</td>
<td>$500</td>
<td>Full-time student registered in B.A. Geography, B.Sc. Geographic Information Systems and Environmental Analysis, B.Sc. Engineering (Water Resource Engineering), B.Sc.(Agr.) Agroecosystem Management or B.Sc.(Env.) Geography majors with demonstrated financial need. Preference will be given to a student who resides in a member municipality of the Credit Valley Authority Foundation.</td>
<td>Credit Valley Conservation Authority Foundation</td>
</tr>
<tr>
<td>Gordon B. Henry Bursaries in Food Science [I3540]</td>
<td>Established in memory of O.A.C. graduate ’34 Gordon B. Henry by his family and associates with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.</td>
<td></td>
<td>Students registered in Food Science with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Gordon B. Henry, O.A.C. ’34 with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td>Elizabeth Burton Bursaries [I3503]</td>
<td>Mrs. Elizabeth Burton, with the assistance of the Ontario government’s OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.</td>
<td></td>
<td>Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td>Food Science Co-op Bursaries [I3509]</td>
<td>Established by the Knechtel Scholarship fund and the Toronto section of CIFST, with the assistance of the Ontario government’s OSOTF program, to assist with Co-op fees. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.</td>
<td></td>
<td>Students registered in the Food Science Co-op program in their first semester of academic study and confirmed registration in the Food Science Co-op program in the following winter semester. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Knechtel Scholarship Fund and the Toronto section of Canadian Institute of Food Science Technology with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td>George and Margaret J. Miles Memorial Bursary [I3544]</td>
<td>Established by the family in memory of the parents, George and Margaret J. Miles, long-time supporters of education. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter describing involvement in extra-curricular activities to Student Financial Services by October 7. ACCESS AWARD.</td>
<td></td>
<td>2 awards of $1,500</td>
<td>Established by the Miles Family with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
</tbody>
</table>

*IX. Scholarships and Other Awards, Bachelor of Science*

**Last Revision: Oct. 19, 2012**
IX. Scholarships and Other Awards, Bachelor of Science

Gryphon Investment Council Bursaries [13513]

Established by Gryphon Investment Counsel, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**ACCESS AWARD**

**Donor(s):** Gryphon Investment Counsel Inc. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

Guelph Compassionate Health and Dental Bursary [13061]

This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.

**Donor(s):** Student Health and Dental Plan Reserve

**Qualification(s):** Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress.

**Amount:** Several awards to a maximum $1,500

Guelph Student Assistance ACCESS Bursaries [13556]

These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**ACCESS AWARD**

**Donor(s):** Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** Several awards of varying amounts up to $1,000

Guelph Student Assistance Program [13056]

These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** Undergraduate Students

**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need.

**Amount:** Several awards of varying amounts up to $1,000

Gwen Karr Memorial Bursary [13101]

Mr. T.K.C. Karr, O.A.C. ’32, has provided an endowment fund to assist students in a degree or diploma program of the Ontario Agricultural College. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Mr. T.K.C. Karr, O.A.C. ’32

**Qualification(s):** O.A.C. students with demonstrated financial need.

**Amount:** Several awards

Helen Mahon Memorial Bursary [13063]

Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.

**Donor(s):** Family and Friends of Helen Mahon

**Qualification(s):** Students registered in any program who come from a family where one parent is deceased.

**Amount:** 1 award of $500

Howard and Myrtle Rogers Bursaries [13537]

Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**ACCESS AWARD**

**Donor(s):** The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 10 up to $2,000

International Emergency Medical Aid Assistance [13059]

The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortages due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.

**Donor(s):** University of Guelph

**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.

**Amount:** Several awards of varying amounts

International Student Bursaries [13069]

Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.

**Donor(s):** Mrs. Norma L. Valeriote

**Qualification(s):** Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.

**Amount:** Several of varying amounts

Irvine and Grace Black Memorial Bursary [13051]

Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women’s Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women’s Institute by October 7.

**Donor(s):** Family and friends of Irvine and Grace Black

**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women’s Institute.

**Amount:** 1 award of $500

Joan Weatherly Memorial Bursary [13065]

Established by the estate of Joan Weatherly, CSS BA ’82, a long-time employee of the University and Sociology graduate with a keen interest in the issues of mature female students. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter identifying admission status as a mature female student, if applicable. Preference will be given to mature-applicant status female students.

**Donor(s):** The Estate of Joan Weatherly

**Qualification(s):** Students registered in any degree program in the departments of Geography, Political Science, Psychology and Sociology & Anthropology with demonstrated financial need.

**Amount:** 1 award of $1,000

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IX. Scholarships and Other Awards, Bachelor of Science

John & Margaret Van Loon Family Bursary in Science [I3549]
Established on behalf of the Van Loon Family in honour of parents John & Margaret Van Loon. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Mr. and Mrs. Van Loon
Qualification(s): Students registered in any program in the College of Biological Science or the College of Physical & Engineering Science who have completed a minimum of 2.5 credits. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

L. George and Margaret Baker Bursary [I3052]
Robert Jack and M. Ismay Martin provide this bursary in memory of Ismay's parents, George and Margaret Baker in recognition of the contributions to society. This award is not tenable with other Senate Awards. Apply by letter with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. To be considered for this award, you must list it on your N.A.F. and include a statement indicating your interest in functional foods and/or the rural community in which you belong to.

Donor(s): Robert Jack and M. Ismay Martin
Qualification(s): Students who resided in Canada prior to their initial registration at the University of Guelph and who are in semesters 3 or 4 of the Food Science program are eligible. The award will be given to the student with an interest in functional foods and secondarily, to those who come from a rural community with greatest financial need.
Amount: Various awards totalling $5,000

Lady Glencora Bursaries [I2586]
Established by the Rathlyn Foundation, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): The Rathlyn Foundation with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in the D.V.M. program and students in the honours B.Sc. (Bio-Med) program who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: Several awards up to $5,000

Mary I. Whitelock Bursaries [I3524]
Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government's OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 13 awards of $2,000

Masterfeeds Bursaries [I3514]
Established by Masterfeeds and the O.A.C. Alumni Foundation, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Masterfeeds with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. students in B.Sc.(Agr.) Animal Science or B.Sc. Animal Biology majors who have demonstrated financial need and, at the time of application, have a cumulative average of 60%. Students may receive one or two bursaries annually. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,250

Murray McEwen OAC Safe Water Bursary [I3573]
Selection will be based on the highest financial need. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form and a letter indicating which of the listed courses have been completed. ACCESS AWARD

Donor(s): Murray McEwen with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any major offered by OAC who have completed any two of the following courses: ENVS*3150 (Aquatic Systems), ENVS*3190 (Environmental Water Chemistry), ENVS*3290 (Waterborne Disease Ecology), ENVS*3808 (Soil and Water Conservation) and ENVS*3900 (Groundwater) with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $1,000

Murray P. And Florence L. Hannah Bursaries [I3571]
Preference will be given to students from the County of Northumberland. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Estate of Florence Hannah with matching funding through the Ontario Trust for Student Support program
Qualification(s): OAC students registered in the BSc(Agr) or the BSc(Env) program who have completed a minimum of 4.0 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $1,000

O.A.C. ‘38 Lloyd Minshull Bursaries [I3529]
Established by O.A.C. ‘38 Alumni, with the assistance of the Ontario government's OSOTF program, to recognize the many contributions of Lloyd Minshull to his classmates and to O.A.C. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): O.A.C. ‘38 Alumni with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students with demonstrated financial need in semesters 5, 6, 7 or 8. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 4 awards of $1,800
O.A.C. ’55 Access Bursaries [I3517]
Provided by the class of O.A.C. ’55 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): O.A.C. Class of ’55 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students at any semester level in an O.A.C. degree program or students enrolled in the B.ENG. program with demonstrated financial need and a 60% minimum cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 6 awards of $500

Ontario Federation of Agriculture Bursaries [I3520]
Provided by the Ontario Federation of Agriculture and the O.A.C Alumni Foundation with the assistance of the Ontario government’s OSOTF program. Apply with a letter indicating 4H and/or rural community involvement and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. To be considered for this award you must indicate it on our N.A.F. and include a statement outlining your extracurricular activities. ACCESS AWARD
Donor(s): Ontario Federation of Agriculture with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students in good standing in semesters 3 to 4 of a diploma program administered by O.A.C., and demonstrated need of financial assistance.
Amount: 12 awards of $500

Ontario Grape Growers Bursary [I3033]
Offered by the Ontario Grape Growers Action Committee. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
Donor(s): The Ontario Grape Growers Action Committee
Qualification(s): Students at any semester level in an O.A.C. degree program or students at any semester level in an O.A.C. degree program or semesters 3 to 4 of a diploma program administered by O.A.C., and demonstrated need of financial assistance.
Amount: Several of various amounts

Robert Auger Humanitarian Bursary [I3058]
This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar. Financial Aid, Student Financial Services.
Donor(s): Office of Registrarial Services
Qualification(s): Students registered in a degree program.
Amount: Several grocery vouchers or book vouchers

Ron Scriver Memorial Bursary [I3547]
Established in memory of Mr. Ron Scriver (1946 - 2005) C.P.E.S. B.A. ’76, to honour his outstanding 32-year career with the Ontario Universities’ Application Centre and his extensive involvement with colleagues throughout the University system. Preference will be given to students registered in the Bachelor of Computing Science Program. Apply with a Financial Need Assessment Form to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): Family and Friends of Ron Scriver with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in any program offered by C.P.E.S. with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,500

Scotiabank Bursaries [I3532]
Established by Scotiabank, with the assistance of the Ontario government’s OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

O.A.C. ’57 Bursaries [I3518]
Provided by the Class of O.A.C. ’57 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): O.A.C. ’57 and the O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 5 awards of $1,000

O.A.C. Alumni Foundation Access Bursaries [I3533]
Provided by the O.A.C. Alumni Foundation, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $500

Ontario Cattlemen’s Association Degree Bursary [I3506]
Provided by the Ontario Cattlemen’s Association and the O.A.C. Alumni Foundation with the assistance of the Ontario government’s OSOTF program. Apply by letter with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): Ontario Cattlemen’s Association with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need who are enrolled in semester 5 or above in the B.Sc.(Agr.), B.Comm.(Agricultural Business), B.Sc.(Animal Biology) or B.Sc.(Food Science) program and have a 60% minimum cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 4 awards of $500

Ontario Co-operatives R.P. Forshaw Bursary [I3013]
The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.
Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw
Qualification(s): Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.
Amount: 1 award of $400
**Shirley Endean Bursaries [I3570]**

These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. **ACCESS AWARD**

**Donor(s):** Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** Several awards of varying amounts

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**T.K. Warley Bursaries [I3510]**

Established by O.A.C. Alumni Association, with the assistance of the Ontario government's OSOTF program, to recognize Professor T.K. Warley's significant contribution to the O.A.C. Alumni Foundation and to students through teaching and promotion/development of "Experience Agriculture". A degree student may receive this bursary twice. Apply by letter outlining extracurricular involvement and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. **ACCESS AWARD.**

**Donor(s):** O.A.C. Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need who are in semester 5 to 8 of any degree program within O.A.C. A minimum 65% is required, as is participation in student activities, governance, and/or college affairs. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,000

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**University of Guelph Access Bursaries [I3522]**

Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. **ACCESS AWARD.**

**Donor(s):** Alumni and Friend of the University of Guelph with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards of $500. Several awards of $2,000

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**University of Guelph Alumni Association Access Bursaries [I3523]**

Established by the University of Guelph Alumni Association, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. **ACCESS AWARD.**

**Donor(s):** University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,000

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**University of Guelph Child Care Bursaries [I3053]**

In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7. **ACCESS AWARD.**

**Donor(s):** University of Guelph

**Qualification(s):** Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need.

**Amount:** Several awards of up to $2,000

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**University of Guelph International Bursary [I3048]**

The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

**Donor(s):** University of Guelph

**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.

**Amount:** Several varies

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**University of Guelph Undergraduate In-Course Bursaries (MEET-TR-UG) [I3037]**

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph

**Qualification(s):** Ontario students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.

**Amount:** Several awards ranging in value from $100 to $4,000

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**University of Guelph Undergraduate In-Course Bursaries (NON OSOTF TR) [I3047]**

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph

**Qualification(s):** Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.

**Amount:** Several awards to a maximum of $500

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**University Police Bursaries [I3019]**

The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** The University Police

**Qualification(s):** Full-time undergraduate with demonstrated financial need.

**Amount:** Several of various amounts

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**University Student Assistance Program [I3057]**

These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph

**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).

**Amount:** Several awards of various amounts to a maximum of $1,000

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**In-course Travel Grants**

**A.E. Wardlaw Travel Grant [T0665]**

Established by Mrs. Alta E. Wardlaw (nee Chapman), a 1912 student at Macdonald Institute. Selection will be based on the cost of the travel and the benefit it will bring to the student's program of study. Preference will be given to the student attending a professional conference/meeting. Apply by May 15 to the CSAHS Awards Committee by completing the CSAHS Awards Application and attach a letter describing the travel, the benefit it will bring to your program and an overall travel budget. This award can only be held once.

**Donor(s):** Mrs. Alta Ethelwyn Wardlaw

**Qualification(s):** Students registered in the College of Social and Applied Human Sciences who have completed up to 15.0 credits and who will be travelling for academic reasons, or to attend an appropriate professional conference/meeting.

**Amount:** 1 award of $1,000

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A.W. Archibald Memorial Travel Grant [T4541]
Mr. A.W. Archibald, O.A.C. ’33 with the assistance of the Ontario government's OSOTF program, provide these travel grants to students who plan to travel for a semester abroad or to attend other schools outside of Canada for workshops or other academic related purposes. Apply to Student Financial Services with a letter outlining proposed travel plans and academic purpose accompanied by a letter of support from a faculty member or student advisor, and a Need-Based Travel grant application by October 7. ACCESS AWARD.

**Donor(s):** A.W. Archibald, O.A.C. ’33 with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Undergraduate students in any O.A.C. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards up to $1000

Aeroplan International Travel Grant [T0604]
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a “Travel Grant Need-based Application”. Preference will be given to students participating in the semester abroad or academic exchanges. Award is subject to the availability of Aeroplan miles and may not be available every year.

**Donor(s):** Aeroplan

**Qualification(s):** Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.

**Amount:** 1 or more awards of a plane ticket

Arthur D. Latornell Undergraduate Travel Grants [T0058]
An endowment fund established in memory of Arthur D. Latornell, O.A.C. ’50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.

**Donor(s):** The Estate of Arthur D. Latornell

**Qualification(s):** Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.

**Amount:** several up to a maximum of $1000

Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]
The Canadian Friends of the Hebrew University, with the assistance of the Ontario government’s OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.

**Donor(s):** Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Undergraduate degree students in either the second or third year of study. Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a “Letter of Permission” prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** A number of awards to a maximum of $7,500

Class of OAC ’59 Experiential Learning Travel Grant [T0702]
The Class of OAC ’59, in recognition of their 50th anniversary since graduation, has established this award to assist students participating in meetings, conferences, seminars, trade shows, course field trips, semesters abroad, etc. Selection will be based on relevance of intended travel and benefits to program of study. Apply by April 1st to the OAC Awards Office with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs and expected benefits. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be beneficial.

**Donor(s):** OAC ’59

**Qualification(s):** Students registered in any undergraduate degree program of OAC who have completed a minimum 8.0 credits or students registered in the Diploma in Agriculture or Horticulture programs at Alfred, Kemptville or Ridgefield campuses or Turfgrass Diploma at the Guelph campus who have completed 6.0 credits are eligible. Students must have a 70% cumulative average and must have travel related to their studies to be considered.

**Amount:** Several awards of up to $15,000

D & G Hart Travel Grant [T0601]

**Donor(s):** Family of Douglas and George Hart

**Qualification(s):** Students currently enrolled in any O.A.C program with a minimum 70% cumulative average who intend to participate in travel related to course study.

**Amount:** 1 award of up to awards of $750

Drs. Frederick Kozak and Lorna Hruby Travel Grant [T0784]
Established by the parents of a BAH graduate in 2008 and MA in 2011. Selection will be based on level of commitment to international development and plan for engagement. There are two distinct application deadlines - April 15 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, this award can be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the planned international activity including local engagement, and commitment to international development. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

**Donor(s):** Drs. Frederick Kozak and Lorna Hruby

**Qualification(s):** Full time students registered in any major offered by CSAHS who have completed at least 10.0 credits with a minimum cumulative average of 70%, and who demonstrate the desire and aptitude to help build capacity and address social issues in international communities and are participating in any course-related international travel.

**Amount:** 1 award of $5,000

Geography Field Trip Travel Grant [T0854]
Established in honour of the retirement of Dr. G.T. Bloomfield, former faculty member and Chair of the department of Geography from 1977 to 1982. Apply to the Chair of the Geography department by May 15 with a one-page essay outlining the benefits and expectations of the field course to their career as a geographer and one letter of reference from a geography professor.

**Donor(s):** Alumni, Colleagues, and Friends of Dr. G.T. Bloomfield

**Qualification(s):** Full-time students enrolled in one of the honours program (B.A.H; B.Sc.(ESS); B.Sc.(Env)) offered by the Department of Geography who have completed a minimum of 12.5 credits and have a cumulative average of at least 70% at the time of registration for GEOG*4690.

**Amount:** 1 award of $400
H.C. Mason Travel Scholarships [T0598]

In memory of the late H.C. Mason, a travel fund, within the O.A.C. Teaching Trust, for O.A.C. students who have been established by F.W. Bray of Hamilton. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the travel program, with the submission of a letter of no more than two pages outlining the intended study program/conference/or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant is not tenable with other University of Guelph travel grants.

Donor(s): Mr. F.W. Bray

Qualification(s): Student who are currently registered in an Ontario Agricultural College undergraduate program with a minimum of 70% cumulative average who intend to participate in travel related to course study

Amount: various awards up to $1,500

Human Health & Nutritional Sciences Travel Grant [T0599]

Established by private donation to encourage senior students in the academic programs of Human Health and Nutritional Sciences (H.H.N.S.) to study abroad. Apply by the end of the third week of the semester the proceeding the planned semester of departure to the Chair of H.H.N.S. and include a clearly described schedule of study/research plan for the time abroad and budget. The outline should justify how the time abroad will complement the academic program and enhance educational goals. Within the budget, the applicant should identify how the grant will be used. Students should also include verification of acceptance as a visiting or exchange student or Letter of Permission student status.

Donor(s): Department of Human Health and Nutritional Sciences

Qualification(s): Students enrolled in Human Kinetics, Nutrition and Nutraceutical Sciences or Bio-medical Science majors of the B.Sc. program who have completed 15 credits and are traveling to one of the: University of Copenhagen, Denmark; University of Maastricht, Netherlands; Deakin University, Royal Melbourne Institute of Technology (R.M.I.T.), or the University of Melbourne, Melbourne Australia.

Amount: several awards of up to $2,000

J. Ross Cavers Study Abroad Scholarship [T0051]

O.A.C. ‘53 provides these scholarships in memory of J. Ross Cavers, their honorary year member, professor emeritus, and respected poultry scientist. Apply by letter outlining the intended semester abroad program, the reasons for choosing the program and the perceived value of participation along with a brief summary of related and extracurricular activities to the O.A.C. Awards Office by May 15. A letter of recommendation will also be considered as part of the application package. Application should be made a maximum of two semesters prior to participation in the intended travel program.

Donor(s): Class of O.A.C. ’53

Qualification(s): Undergraduate student in O.A.C. planning to participate in a semester abroad program with a minimum 75% cumulative average. Preference will be given to a candidate who has exhibited qualities of leadership.

Amount: 2 awards of $2,000

J.D. Cunningham Travel Grant [T0605]

Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by May 15 to the O.A.C. Awards Office with a letter of no more than two pages outlining the intended study program, conference, or other type of learning opportunity. Include the reason for choosing the program and describe the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. Upon return from the travel opportunity, the student must be willing to present a report to class mates and/or faculty and/or the Ontario Food Protection Association.

Donor(s): Ontario Food Protection Association

Qualification(s): Students currently enrolled in any O.A.C. program with a minimum cumulative average of 75%. Preference will be given to students in Food Science specializing in Microbiology.

Amount: 1 award of $2,000

Jeff and Donna Lozon Travel Grant [T0772]

Selection will be based on budgetary considerations and academic standing. There are two distinct application deadlines - April 15 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, this award can be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

Donor(s): Jeff Lozon (CSS BA ’76) and Donna Doherty Lozon

Qualification(s): Full-time students registered in any program in CSAHS who are participating in any course-related international travel.

Amount: 2 awards of $1,000

Kenneth W. Knox Undergraduate Leadership Travel Grant [T4403]

Established to honour and recognize Kenneth Knox, Kemptville ’67, OAC ’72, for his passionate and innovative career. Selection will be based on relevance of intended travel and benefits to program of study, demonstrated leadership contributions and financial need. Apply by October 7 to Student Financial Services with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs, expected benefits, demonstrated leadership as evidenced by participation in extracurricular activities or volunteer services, along with a completed University of Guelph Financial Need Assessment Form. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be considered. ACCESS AWARD

Donor(s): Friends and Family of Kenneth Knox with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students registered in any program offered by OAC who have demonstrated leadership contributions, have completed a minimum of 10.0 credits with a minimum 70% cumulative average and plan to participate in an experiential learning opportunity related to their field of study, such as: semester abroad, exchange program, etc. and have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $2,000

Kincardine Shippers Association Travel Grant [T0676]

Established by the members of the Kincardine Shippers Association to assist students in pursuit of their educational goals. Selection will be based on the stated travel benefits, leadership potential and financial need considered. Preference will be given to students from the Municipality of Kincardine and the Township of Huron-Kinloss. Apply with a letter of no more than two pages outlining the intended study program or type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation, along with a Need-Based Travel grant application by October 7 to Student Financial Services. A letter of recommendation will be considered as part of the application.

Donor(s): Kincardine Shippers Association

Qualification(s): Students registered in any program offered by O.A.C. with a minimum 70% cumulative average who plan to participate in travel related to course study.

Amount: 1 award of $1,000

Kiyoko Miyaniishi International Travel Grant [T0742]

Established by Dr. Kiyoko Miyaniishi, a retired faculty member from the Department of Geography, and Dr. Edward A Johnson. Selection will be based on budgetary considerations and academic standing. There are two distinct application deadlines - April 1 for Summer/Fall, and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, both awards could be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

Donor(s): Dr. Kiyoko Miyaniishi and Dr. Edward A Johnson

Qualification(s): Full-time students registered in any degree program in CSAHS with a minimum 70% cumulative average who are participating in any course-related international travel.

Amount: 2 awards of $3,500

Lorne Page Memorial Travel Grants [T0475]

Established by Shirley Page in memory of her husband Lorne, a staff member in Animal and Poultry Science for over 34 years. Apply by letter to the Chair, Department of Animal and Poultry Science by February 1, outlining the nature of the conference and your intended travel program, with the submission of a letter of no more than two pages outlining the intended study program or type of activity related to animal production.

Donor(s): Shirley Page

Qualification(s): Students in Animal Biology or in Agricultural Science with an interest in animal production who have completed 12.50 credits with satisfactory academic standing and who are planning to attend a student conference or activity related to animal production.

Amount: 1 award of $800
Mary Beverley-Burton Travel Scholarships [T4512]
Established by the Department of Integrative Biology, with the assistance of the Ontario government's OSOTF program in honour of Professor Mary Beverley-Burton, of the former Department of Zoology (1968-95), whose research on monogenean worms took her all over the globe. This award is to assist students in attending field courses offered by the Department. Apply with a completed Need-Based Travel Grant Application to Student Financial Services by February 1. ACCESS AWARD

Donor(s): Faculty, staff and alumni of the Integrative Biology Department with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students in the B.Sc. program who are in good academic standing with at least a 70% cumulative average and with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 3 awards of $500

Massey Fund Travel Scholarships [T0417]
Travel scholarships available from the Massey Fund. Not tenable with other awards that support travel costs. Apply by letter outlining the study abroad/exchange program and travel costs to the O.A.C. Dean’s Office by May 15.

Donor(s): O.A.C. Awards Committee
Qualification(s): O.A.C. undergraduate students who are participating in an approved study abroad or exchange program outside Canada. Academic standing in the last two full-time semesters or equivalent will be used to determine recipients.
Amount: 6 awards of up to $2,000 each

Mathematics & Statistics Fourth Year Travel Grants [T0624]
Apply by submitting a letter with a brief description of the conference and a completed budget to the Mathematics and Statistics Undergraduate Awards Committee at least one month prior to the conference. Preference will be given to students presenting a paper or poster or returning to pursue graduate studies in the department. A student may be considered for this grant once only.

Donor(s): The Department of Mathematics and Statistics
Qualification(s): Registered students in year 4 (i.e. who have completed a minimum of 15.0 credits) with a cumulative average of at least 75%, enrolled in any major offered by the Depart. of Math and Stats, and who are planning to attend a conference related to program of study.
Amount: Several grants of up to $250

O.A.C. ’05 Excellence Travel Grant [T0600]
In honour of the O.A.C. Class of 1905 and with the support of the O.A.C. Class of 2005. Apply to the O.A.C. Awards Office by May 15 with the submission of a letter of no longer than two pages outlining the intended study program/conference/or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant is not tenable with other University of Guelph travel grants.

Donor(s): Class of OAC 1905 and the Class of OAC 2005
Qualification(s): Student who are currently registered in an Ontario Agricultural College undergraduate degree program and wish to travel to expand their educational opportunities.
Amount: 1 award of $300

O.A.C. ‘47 Travel Bursaries [T3505]
Provided by O.A.C.’47 on the occasion of its 50th anniversary and with the assistance of the Ontario government's OSOTF program. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure by October 1, for winter travel, February 1 for summer travel or June 1 for fall travel. ACCESS AWARD

Donor(s): O.A.C. ’47 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students who have demonstrated financial need and who are participating in a study abroad program for academic credit at an approved institution. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: several awards of various amounts

O.A.C. ’54 International Study Scholarship [T0586]
Established in memory of Beth Duncan to support students participating in an exchange program, study abroad semester, or a field trip course. Submit a letter (of not more than two pages) outlining the intended international study program, reasons for choosing the program and the anticipated benefits of participation. Letters should also include a brief summary of extracurricular and student related activities. Letters of reference will be considered. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the program.

Donor(s): Class of O.A.C. ’54
Qualification(s): Currently registered students in O.A.C. who are Canadian citizens or permanent residents with a minimum 75% cumulative program average who intend to participate in an exchange program, semester abroad, or field course.
Amount: 2 awards of $1,450

OURA Innovation Travel Grant [T4393]
Established in recognition of an innovative student fee proposal put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7th with a completed Financial Need Assessment Form and include one-page description of the intended travel. ACCESS AWARD

Donor(s): Ontario University Registrars’ Association (OURA) with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $350

Physics Travel Scholarship [T0400]
This award is given annually to assist students with travel and/or housing costs associated with attending a seminar or more of academic study or co-operative work experience at a recognized university outside Canada. Depending on availability of funds, more than one recipient may be selected for this award. Applications must be accompanied by a one-page description of the planned travel, including budget, to the Chair of the Department of Physics at least two months prior to departure.

Donor(s): Department of Physics
Qualification(s): Student who has completed at least semester 4 of one of the majors in the Physics program with a cumulative average of 80% or greater, and who has obtained a Letter of Permission to attend a University abroad.
Amount: 1 award of $500

Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]
The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government's OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD.

Donor(s): The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: Several awards of varying amounts to a maximum of $1,000

Robb Travel Grants [T3028]
These travel grants have been provided in recognition of her love of agriculture, by the estate of Martha Robb, Paris, Ontario. Apply to the Dean, O.A.C. by May 15.

Donor(s): The Estate of Martha Robb
Qualification(s): O.A.C. students who are attending another university on a Letter of Permission.
Amount: Several awards of various amounts
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Roderick Long International Travel Grant [T0360]</strong></td>
<td>Offered in memory of the late Roderick Long, O.A.C.'54. Up to eighty percent of the travel costs associated with the study outside of Canada program will be covered up to a maximum of $1,000 per student. Application by letter should be made to the Dean O.A.C. by May 15, and include a description of the study abroad program.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>Mr. Roderick W. Long</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>O.A.C. undergraduate student who is studying outside of Canada on an approved program for one or more semesters</td>
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<td><strong>Amount:</strong></td>
<td>Several awards of $1,000</td>
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| **The Jean Rich Foundation Travel Grant [T0730]** | Selection will be based on budget considerations, and participation in community development projects. There are two distinct application deadlines - April 1 for Summer/Fall and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, both awards could be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity, including involvement in community development projects, and the financial need. The letter should be accompanied by a budget outlining travel expenses and other revenue sources. |
| **Donor(s):** | The Jean Rich Foundation |
| **Qualification(s):** | Full-time students registered in the College of Social and Applied Human Sciences who are participating in international travel activities in developing countries as part of a course of study. |
| **Amount:** | 2 awards of $2,500 |

| **University of Guelph Travel Scholarships [T0421]** | The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. |
| **Donor(s):** | University of Guelph |
| **Qualification(s):** | Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study. |
| **Amount:** | Several awards up to $1,500 |
Bachelor of Science in Agriculture

Please refer to the General Statement on Awards for:

- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

Entrance Scholarships

1961-1964 Redmen Football Scholarships [E0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipients(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.

Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [E0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Football team who is registered in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

Amount: 1 award of $1,500

AI Singleton Hockey Scholarships [E0687]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [E0663]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Allen Keele
Qualification(s): Entering student-athlete who is a member of the Varsity track and field team and who has achieved a minimum 80% admission average.

Amount: 1 award of $1,350

Amos & William Lowe Memorial Scholarship [E0158]
Endowed by the late William B. Lowe of Fort Francis, Ontario. Preference will be given first to eligible students from the district of Rainy River, then from the district of Kenora or Thunder Bay, and finally from the remaining districts of Northern Ontario. Application is not required.

Donor(s): William B. Lowe and Amos Edgar Lowe
Qualification(s): Student entering any of the undergraduate degree programs of the Ontario Agricultural College.

Amount: 1 award of $1,250

Angelo and Frank Agro Undergraduate Scholarship [E0520]
These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities.

This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership role(s) in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

Donor(s): The Frank Agro Estate
Qualification(s): Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4H projects.

Amount: 8 awards of $7,000 (payable over 4 years of study)

B.Sc.(Agr.) Alfred McInroy "Mac" Cuddy Memorial Scholarship [E0669]
Established by the Estate of Alfred McInroy (Mac) Cuddy, BSA ’42 and awarded to the two students who demonstrate high academic achievement and involvement in agriculture-related activities. Apply to Student Financial Services by April 15 with a one page letter outlining career aspirations, extracurricular and community involvement in agriculture-related activities.

Donor(s): The Estate of Alfred McInroy Cuddy
Qualification(s): Students entering the first semester of the Bachelor of Science in Agriculture with a minimum of 80.0% admission average.

Amount: 2 awards of $2,000

Barry Lee Scholarship for Agricultural Excellence [E0797]
Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

Donor(s): The Regional Municipality of Halton
Qualification(s): Students entering any undergraduate program offered by OAC.

Amount: 1 award of $1,000

Board of Governors’ Scholarships [E0317]
The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

Donor(s): Board of Governors
Qualification(s): Academically outstanding students entering semester 1 with the highest admission averages of the entering cohort.

Amount: 25 award of $8,000 (payable over 4 years of study)

Bob & Joyce Brooks Football Scholarships [E0691]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Mrs. Joyce Brooks
Qualification(s): Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

Amount: Numerous awards ranging in value from $750 to $3,500

Coach Rudy Florio Football Scholarship [E0737]
Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. Rudy Florio
Qualification(s): Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

Amount: 1 award of $3,500
### IX. Scholarships and Other Awards, Bachelor of Science in Agriculture

<table>
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<tr>
<th>Scholarship Name</th>
<th>Qualification(s)</th>
<th>Amount</th>
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<tbody>
<tr>
<td><strong>Dr. C. John Small Commonwealth Scholarship</strong> [E0611]</td>
<td>Full-time visiting exchange students registered for at least one semester from a Commonwealth developing country who are pursuing studies or conducting research in the area of agriculture and rural development.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td><strong>Dr. Jack Britney Scholarship</strong> [E0034]</td>
<td>Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship</strong> [E0695]</td>
<td>Entering student-athlete who is a member of the Varsity Cross / Country or Track and Field Team and who has achieved a minimum 80% admission average.</td>
<td>1 award of $1,350</td>
</tr>
<tr>
<td><strong>Elaine Scott-Thomas Track and Field Scholarship</strong> [E0706]</td>
<td>Entering student-athlete who is a member of the varsity cross-country or track and field team who has achieved a minimum 80% admission average.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td><strong>Emby Family Scholarship</strong> [E0736]</td>
<td>Entering student-athlete who is a member of a varsity team and registered in an undergraduate program and who has achieved a minimum 80% admission average.</td>
<td>1 award of $3,500</td>
</tr>
<tr>
<td><strong>Ernie Kendall Science Entrance Scholarship</strong> [E0668]</td>
<td>Entering student-athlete who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.</td>
<td>1 award of $2,000</td>
</tr>
<tr>
<td><strong>George A. Gray O.A.C. ’51 Varsity Scholarships</strong> [E0487]</td>
<td>Entering student-athlete who is a member of the varsity team and who has achieved a minimum 80% admission average.</td>
<td>2 awards of $1,250</td>
</tr>
<tr>
<td><strong>Gerd and Christel Baldauf Men's Basketball Scholarship</strong> [E0639]</td>
<td>Entering student-athlete entering the BSc program who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.</td>
<td>1 award of $3,500</td>
</tr>
<tr>
<td><strong>Gordon W. Innes Scholarship</strong> [E0140]</td>
<td>Entering student-athlete who is a member of the varsity team and who has achieved a minimum 80% admission average.</td>
<td>1 award of $1,400</td>
</tr>
<tr>
<td><strong>Gryphon Athletic Scholarships</strong> [E0631]</td>
<td>Entering student-athlete who is a member of the varsity team and who has achieved a minimum 80% admission average.</td>
<td>various awards of $750 to $3,500</td>
</tr>
<tr>
<td><strong>Hardy International Student Scholarship</strong> [E0659]</td>
<td>Entering student-athlete who is a member of the varsity team and who has achieved a minimum 80% admission average.</td>
<td>1 award of $3,000</td>
</tr>
</tbody>
</table>

**Qualification(s):** Students entering any programme at the university who have achieved a minimum 80% admission average. Application is not required.
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Student Entrance Scholarships [E0408]</td>
<td>In support of the University's strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is not required.</td>
</tr>
<tr>
<td>J.D. MacLachlan Scholarship [E0170]</td>
<td>Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.</td>
</tr>
<tr>
<td>Jack and Lillian MacDonald Scholarship [E0379]</td>
<td>Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald. Established in memory of James MacMillan, his great uncle, by Austin Conway of Toronto. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter indicating the program at Kemptville in which the applicant graduated from to Student Financial Services by October 7.</td>
</tr>
<tr>
<td>James MacMillan Memorial Scholarship [10494]</td>
<td>Established in memory of James MacMillan, his great uncle, by Austin Conway of Toronto. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter indicating the program at Kemptville in which the applicant graduated from to Student Financial Services by October 7.</td>
</tr>
<tr>
<td>Larry Pearson Men's Volleyball Athletic Scholarships [E0618]</td>
<td>Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men's varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td>Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [E0732]</td>
<td>Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.</td>
</tr>
<tr>
<td>Lincoln Alexander Scholarships [E0689]</td>
<td>Established in 2001 in honour of Lincoln Alexander, Chancellor Emeritus of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This award cannot be held with the President’s Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.</td>
</tr>
<tr>
<td>Lloyd Dorr Memorial Hockey Scholarship [E0708]</td>
<td>Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. Application is not required.</td>
</tr>
<tr>
<td>McArthur-Humphries Scholarship [E0183]</td>
<td>An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county. These scholarships are awarded to students with the highest admission averages. Application is not required.</td>
</tr>
<tr>
<td>Men's Basketball Scholarships [E0638]</td>
<td>Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td>Men's Soccer Alumni Scholarship [E0771]</td>
<td>Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.</td>
</tr>
</tbody>
</table>

**Amount:**

- University of Guelph: Several awards ranging in value from $500 - $6,000
- J.D. MacLachlan Scholarship: 1 award of $1,500
- Jack and Lillian MacDonald Scholarship: 1 award of $1,200
- James MacMillan Memorial Scholarship: 1 award of $1,000
- Kelly Bertrand Cross Country Scholarship: 1 award of $2,000
- Larry Pearson Men’s Volleyball Athletic Scholarships: several awards up to $3,500
- Latifpoor-Keparoutis Family Varsity Swim Team Scholarship: 1 award of $1,200
- Lincoln Alexander Scholarships: 1 award of $1,200
- Lloyd Dorr Memorial Hockey Scholarship: 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)
- McArthur-Humphries Scholarship: 1 award of $1,000
- Men's Basketball Scholarships: 4 awards of $2,500
- Men's Soccer Alumni Scholarship: several awards ranging in value from $1,000 to $3,500

**Qualification(s):**

- Students entering any degree program at the University of Guelph.
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- Students entering any degree program at the University of Guelph.

**Donor(s):**

- University of Guelph
- The J.D. MacLachlan Trust
- Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald
- Austin Conway
- Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald
- Austin Conway
- Kelly Bertrand
- Larry Pearson
- Maryam Latifpoor-Keparoutis
- Many Donors
- Family and Friends of the late Lloyd Dorr
- Many Donors
- Lloyd Dorr Memorial Hockey Scholarship
- Family and Friends of the late Lloyd Dorr
- Many Donors
- Larry Pearson
- Many Donors
- Larry Pearson
| Scholarship Name                                                                 | Amount       | Qualification(s)                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
| Moulton-Hutchinson Family Track and Field Scholarship [E0705]                   | 1 award of $3,500 | Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average. |
| President's Scholarship [E0238]                                                 | A number of President's Scholarships have been named in honour of the following people and/or donors:  
  - Cecil H. Franklin and Ingrid Franklin  
  - Charles S. Humphrey  
  - Kathleen and Frederick Metcalf  
  - Lillian Stewart Usher  
  - Professor Victor Matthews Track and Field Scholarships [E0707]  
  - Quinn Memorial Scholarship [E0578]  
| Amount: 1 award of $1,000                                                      |              |                                                                                                                                                                                                                   |
| President's Scholarship [E0238]                                                 |              | Established in 1987 in honour of their donors or distinguished members of the University and are considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the Lincoln Alexander Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.  |
| Amount: 1 award of $1,000                                                      |              |                                                                                                                                                                                                                   |
| President's & Chancellor's Finalists Scholarship [E0651]                       |              | Established in recognition of demonstrated academic excellence, leadership ability and participation in the President’s and Chancellor’s Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President’s or Chancellor’s Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.  |
| Amount: several awards of $500                                                  |              |                                                                                                                                                                                                                   |
| Quinn Memorial Scholarship [E0578]                                              |              | Established in memory of Ronald J. Quinn (O.A.C. ’35) to an entering O.A.C. international full-time or exchange student. Selection will be based on academic performance, letters of reference and an assessment of the admission application package. Application is not required.  |
| Amount: 1 award of $1,500                                                      |              |                                                                                                                                                                                                                   |
Rachel Cliff Scholarship [E0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Ronald & Nancy Cliff

Qualification(s): Entering student-athlete who is a member of the Women’s Middle Distance Team and a distance runner who has achieved a minimum 80% admission average.

Amount: 1 award of $1,500

Robert Thompson Scholarship [E0283]
Established in memory of the late Robert Thompson and awarded to a student with high academic standing. Application is not required.

Donor(s): The estate of Mrs. Sarah Jane Fiske

Qualification(s): Students entering the first semester of the B.Sc (Agr.) program.

Amount: 1 award of $800

Sprung Family Men’s Basketball Scholarship [E0672]
Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Mr. Timothy Sprung

Qualification(s): Entering student-athlete who is a member of the Men’s basketball team and who has achieved a minimum 80% admission average.

Amount: 1 award of $3,500

Ted Morwick Scholarship [E0796]
Established by Alumnus Ted Morwick, BA ’70. The student with the highest admission average will be selected. This award is conditional on maintaining a 80% average in the previous year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify. (i.e. The student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year.) If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opportunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary.

Donor(s): Mr. Edward (Ted) Morwick

Qualification(s): Students entering any degree program in the College of Arts.

Amount: 1 award of $8,000 (payable over four years.)

Tom Mooney Scholarship [E0709]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors

Qualification(s): Entering student-athlete who is a member of the varsity men’s football team or men’s basketball team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

Amount: Numerous awards ranging in value from $1,000 to $3,500

TSC Stores Scholarship in Memory of Gordon Illes [E0731]
Established in memory of Gordon Illes, a 1974 graduate of Ridgetown. Selection based on the quality of experience and/or leadership in volunteerism within the agriculture industry and the community, including extra curricular activities and career aspirations. (e.g. 4H, Junior Farmers, agricultural work experience). Preference will be given to current employees of TSC Stores or their children. Apply by April 15th to the OAC Awards Office with a letter outlining career aspirations, extracurricular and community involvement in agri-food related activities and include a letter from TSC Stores management to verify employment if applicable.

Donor(s): TSC Stores L.P. (TSC)

Qualification(s): Students entering any OAC degree program at the Guelph, Ridgetown or Kemptville campuses with a minimum 80% admission average.

Amount: 1 award of $1,000

University of Guelph Entrance Scholarships [E0291]
The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student's financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive this award. Application is not required.

Donor(s): University of Guelph

Qualification(s): All students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average.

Amount: Several awards of $2,000, Several awards of $3,000

University of Guelph Faculty Association Scholarship [E0292]
Award is payable at $750 per annum in the student’s 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required.

Donor(s): University of Guelph Faculty Association

Qualification(s): Students entering any undergraduate degree program at the University of Guelph from Wellington county.

Amount: 1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)

W. Penri Morris Memorial Scholarship [E0430]
Established by the family in memory of Penri Morris, who was killed World War II action in 1944 at the age of 21. Penri grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required.

Donor(s): Prof. Rosalina Morris

Qualification(s): Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.

Amount: 1 award of $1,000

Walter and Halina Slabikowski Scholarship [E0766]
This scholarship was established in memory of Walter and Halina Slabikowski who sent their first generation Canadian born children to university to enrich their lives and provide them with greater opportunities. The award will be given to the student with the highest admission average. The residence deposit must be received by published deadline date. Submit by email to awards@registrar.uoguelph.ca your full name, student ID number and a statement attesting to your parents’ place of birth and non participation in post secondary education by April 15th.

Donor(s): Irene Thompson and Slabikowski Family

Qualification(s): Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.

Amount: 1 award of $1,000

Waterloo-Wellington Science & Engineering Fair (WWSEF) Scholarship [E0619]
Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.

Donor(s): University of Guelph

Qualification(s): Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.

Amount: various awards of $1,000

William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships [E0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mrs. Irene McEwen

Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

Amount: Numerous awards ranging in value from $750 to $3,500

William P. Weber Football Scholarship [E0634]
Established by Dr. William P. Weber, OVC ’59, football alumni and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. William P. Weber

Qualification(s): Entering student-athlete who is a member of the Men’s Football team and achieved a minimum 80% admission average.

Amount: 1 award of $2,500
Entrance Scholarships with Financial Need

Bill Klopp Memorial Scholarship [E0150]
Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

Donor(s): Ross and Mary Lou Klopp
Qualification(s): Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.
Amount: 1 award of $500

Devine Family Scholarships [E4542]
On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government’s OTSS program, established these two awards for the purpose of diversifying the ethnicity of the student body of the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out once every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the “Devine Family Scholarship Application”. Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President’s Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards.

ACCESS AWARD.

Donor(s): Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability, or who are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $30,000 (payable over 4 years of study)

Harold A. Kopas Memorial Entrance Scholarship [E0152]
Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student), by April 15. Subsequent payments are dependent on the student maintaining a 70% cumulative average, demonstrating continuing financial need and continuing in the B.Sc.(Agr.) or D.V.M. program.

Donor(s): The Harold A. Kopas Charitable Foundation
Qualification(s): Students entering the B.Sc.(Agr.) program with demonstrated financial need and a minimum average of 70% from Wellington County or Waterloo region.
Amount: 1 award of $6,000 ($2,100 in year 1 and $1,300 in years 2,3, & 4)

Interhall Council Entrance Scholarship [E0636]
Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.

Donor(s): The Interhall Council
Qualification(s): Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability.
Amount: 3 awards of $1,250

John Embry Family Scholarship [E4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

ACCESS AWARD

Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $3,500

Kenneth O. Hammill-Blount Canada Scholarship [E4356]
Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government's OTSSF program. Selection will be based on greatest financial need from the President’s, Lincoln Alexander's or Pamela Wallin’s Chancellor’s Scholarships applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who submitted an application for the President’s, Lincoln Alexander's or Pamela Wallin’s Chancellor’s Scholarships should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) by April 15. ACCESS AWARD.

Donor(s): The Blount Foundation, Inc. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Entering students who have applied for the President's, Lincoln Alexander's or Pamela Wallin's Chancellor's Scholarships who are interviewed, but not successful in the competition with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSSF award (see General Statements on Awards).
Amount: 1 award of $9,600 (payable in 8 payments of $1,200)

Landoni Athletic Scholarship [E4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Student must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to students entering the Microbiology major. Students must have applied for the President’s, Lincoln Alexander and/or women’s rugby obtain CIS status, preference should then be given to female athlete from women’s rugby. ACCESS AWARD

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Norman L. Gibbins Microbiology Scholarship [E4392]
Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government’s OTSSF program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): Family, friends and colleagues of Norman Gibbins with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student entering the Microbiology major in the B.Sc. program with a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSSF award (see General Statements on Awards).
Amount: 1 award of $1,000
P.A. Clarke Family Scholarship [E0381]
Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.). This award is not tenable with the President's Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

**Donor(s):** Paul and Aileen Clarke  
**Qualification(s):** Students with a minimum 80% average with a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm.  
**Amount:** 1 award of $12,000 (payable over 4 years)

Robert C. Skipper Scholarship [E0485]
Established by Robert C. Skipper, Diploma in Agriculture 1948 and B.S.A. 1951. Selection will be based on academic standing, participation in extra-curricular activities and involvement in primary production and/or rural community activities. Financial need may also be considered. Apply to Student Financial Services by April 15 with a one-page summary outlining activities and by completing the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.).

**Donor(s):** Mr. Robert C. Skipper  
**Qualification(s):** Students entering a degree program in O.A.C that have graduated with a Diploma in Agriculture or Horticulture from the University of Guelph's Kemptville or Ridgetown campuses.  
**Amount:** 1 award of $1,000

Rol-Land Farms Scholarships [E4519]
Established by Rol-Land Farms, with the assistance of the Ontario government's OSOTF program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

**Donor(s):** Rol-Land Farms with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students entering a degree program with demonstrated financial need and a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 13 awards of $2,000

Spitzig Entrance Scholarship in Economics [E4543]
A graduate (1986) of the B.A. Economics program has established these scholarships with the assistance of the Ontario government's OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

**Donor(s):** Anonymous with matching funding through the Ontario Student Support program  
**Qualification(s):** Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 2 awards of $4,500

W. F. Mitchell Athletic Scholarship [E4550]
Established by the Mitchell Family, with the aid of the Ontario government's OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

**Donor(s):** The Mitchell Family with matching funding through the Ontario Student Support program  
**Qualification(s):** An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 1 award of $1,350

**Entrance Bursaries**

Elizabeth Maud Hunter (Shier) Bursary [E3575]
This award was created to assist first year students in obtaining a post secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards.

**Donor(s):** The Estate of the Late William Henry "Harry" Hunter with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Students entering any degree program at the University of Guelph with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSF award (see General Statements on Awards).  
**Amount:** 3 awards of up to $4,500

First Year Student Residence Bursary [E3066]
These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15.

**Donor(s):** Student Housing Services  
**Qualification(s):** Students entering any degree program with demonstrated financial need.  
**Amount:** 5 awards of $500

Fred Hindle Bursary [E3500]
Awarded in memory of Fred Hindle, O.A.C.'38, a long-time generous supporter of his Alma Mater, who at the time of his death, wanted future students to have the same opportunity for an education as he had received. This bursary is awarded with the assistance of the Ontario government's OSOTF program. This bursary is dependent on continued demonstration of financial need and successful completion of study to advance into the next year. Students should complete the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.

**Donor(s):** W. Roy Hindle and family with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Entering O.A.C. degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statement on Awards).  
**Amount:** 1 award of $6,000 (payable over 4 years)

**Gord Bennett Memorial and O.A.C. '43 Class Bursary [E3515]**
The family and friends of R. Gordon Bennett, O.A.C. ’43, a former Deputy Minister of Agriculture, with the assistance of the Ontario government's OSOTF program, have created this bursary. Apply by April 15 with a letter indicating farming background to Student Financial Services and by completing the online Financial Need Assessment Form (N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). ACCESS AWARD

**Donor(s):** The family and friends of R. Gordon Bennett, O.A.C. ’43 with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students with demonstrated financial need entering a Diploma program or the B.Sc.(Agr.), or B.Com., Agricultural Business programs. Preference will be given to students whose primary family occupation is farming. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 1 award of $1,000
### Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. ’39). Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15.

**Donor(s):** Harvey Graham, O.A.C. ’39  
**Qualification(s):** Student who has demonstrated financial need with preference given to a student who comes from a working farm. Students graduating from Lindsay C. V. I., Fenelon Falls Secondary School, or I. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student’s home township.

**Amount:** 1 award of $1,200

### International Student Entrance Bursaries [E3043]

In support of the University’s strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar's Entrance Award Application to Student Financial Services.

**Donor(s):** University of Guelph  
**Qualification(s):** Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.

**Amount:** Several awards ranging in value from $1,000 to $3,000

### Registrar's Entrance Bursaries [E3034]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Bursary, but can be held with all other Entrance Awards.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.

**Amount:** 500 awards of $2,000

### Robert Arthur Stewart Bursaries [E3272]

Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

**Donor(s):** The Estate of Mrs. H. Stewart  
**Qualification(s):** Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.

**Amount:** 12 awards of $500

### University of Guelph Accessibility Bursaries [E3038]

Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Bursary, but can be held with all other Entrance Awards.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.

**Amount:** 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

### In-course Scholarships

#### 1961-1964 Redmen Football Scholarships [I0770]

Made possible by the generous contributions of members of the 1961–1964 Redmen Football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Dr. Robert Keith (c/o 1961-1964 Football Committee)  
**Qualification(s):** Current member of the Gryphon Football team who is registered in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** several scholarships ranging from $1500 to $3500

#### 2003-2009 Men's Cross Country and Track and Field Legacy Scholarship [I0769]

Made possible by the generous contributions of Gryphon Cross Country and Track and Field Alumni from 2003–2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)  
**Qualification(s):** Current member of the Gryphon Men’s Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,500

### Al Singleton Hockey Scholarships [I1067]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** 1957-58 OA-VC Redmen Championship Hockey Team  
**Qualification(s):** Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

### Allen Keele Track and Field Scholarship [I1063]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Allen Keele  
**Qualification(s):** In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $1,350
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Type</th>
<th>Qualification(s)</th>
<th>Application Procedure</th>
<th>Amount</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber (Gibbons) Underwood Communications Scholarship [I0207]</td>
<td>Scholarship</td>
<td>Students enrolled in the B.Sc.(Agr.) program of the Ontario Agricultural College.</td>
<td>Offered in memory of Amber (Gibbons) Underwood (O.A.C.'79, M.SC.'87) by the Gibbons and Underwood families and the class of O.A.C.'79.</td>
<td>1 award of $400</td>
<td>The Gibbons and Underwood families and the Class of O.A.C.'79</td>
</tr>
<tr>
<td>BASF Canada Scholarship in Crop Protection [I0754]</td>
<td>Scholarship</td>
<td>Students registered in the B.Sc.(Agr.) or the B.Comm. Agricultural Business program who have completed 7.5 credits with a 70% cumulative average.</td>
<td>Selection will be based on past work experience in the area of crop protection or crop agronomics, future goals, and academic achievement. Apply by letter (no more than 2 pages) outlining work experience in the area of crop protection or crop agronomics and future career goals to the Chair, Department of Plant Agriculture by May 15th.</td>
<td>1 award of $2,500</td>
<td>BASF Canada Inc. o/a BASF Canada</td>
</tr>
<tr>
<td>Bruce W. Minshall Memorial Scholarship [I0450]</td>
<td>Scholarship</td>
<td>Students enrolled in the B.Sc.(Agr.) or the B.Comm. Agricultural Business program who have completed semester level 6 are eligible.</td>
<td>Provided by Dr. W.H. Minshall (O.A.C.'33) in memory of his son Bruce, a graduate of O.A.C. in 1970. Apply by May 15 to the OAC Dean's Office (Awards) by letter listing courses taken in the area of crop protection. Awarded in the fall semester.</td>
<td>1 award of $1,100</td>
<td>O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall</td>
</tr>
<tr>
<td>C.W. Riley Prize [C0246]</td>
<td>Award</td>
<td>Students registered in the B.Sc.(Agr.) or the B.Com. Agricultural Business program who have completed 7.5 credits with a 70% minimum cumulative average.</td>
<td>Established by family and friends in memory of the late Lieutenant Charles McGowan. Application is not required.</td>
<td>1 award of $200</td>
<td>Charles McGowan Memorial Fund</td>
</tr>
<tr>
<td>Charlie S. Evers Scholarship [I0888]</td>
<td>Scholarship</td>
<td>Students registered in the B.Sc.(Agr.) or the B.Com. Agricultural Business program who have completed 7.5 credits with a 70% minimum cumulative average.</td>
<td>Provided by AMF Canada Ltd.</td>
<td>1 award of $1,000</td>
<td>AMF Canada Ltd.</td>
</tr>
<tr>
<td>Cheryl Somerville Memorial Leadership Scholarship [I0647]</td>
<td>Scholarship</td>
<td>Students registered in the B.Sc.(Agr.) or the B.Com. Agricultural Business program who have completed 7.5 credits with a 70% minimum cumulative average.</td>
<td>Established by family and friends in memory of the late Cheryl Somerville, O.A.C.'96, to recognize the outstanding and significant leadership contributions of students. Selection will be based on leadership contributions to the college and/or university during the first three semesters; community, 4H and Junior Farmer activities will also be considered. Application is by nomination. Nominations will be made by Student Federation of the O.A.C. and must include a brief resume of the nominee and a statement of his/her leadership contributions along with an outline of the impact of those contributions to student and community life. Nominations are due in the OAC Awards Office by December 1st.</td>
<td>1 award of $1,000</td>
<td>Family and Friends of Cheryl Somerville</td>
</tr>
</tbody>
</table>

2012-2013 Undergraduate Calendar
**Class of ’51 O.A.C. Leadership Prizes [C0063]**

Established by Year ’51 O.A.C., on the occasion of its 45th anniversary. At the discretion of the O.A.C. Awards Committee students may be selected before graduation. Application is not required.

**Donor(s):** Year ’51 O.A.C.

**Qualification(s):** Students graduating from the degree program in a major in an O.A.C. department who have a 70% standing in the final year of study and who have demonstrated leadership in the College or University extracurricular activities.

**Amount:** 5 awards of $2,000

**Class of ’67 O.A.C. Centennial Scholarship [I0067]**

Apply by May 15 to the O.A.C. Awards Office with a letter outlining participation in extracurricular activities in all branches of college life. Awarded in the fall semester.

**Donor(s):** Class of O.A.C. ’67

**Qualification(s):** Student majoring in an O.A.C. department who through activity in all branches of college life as well as scholastic achievement has made an outstanding contribution to the University.

**Amount:** 1 award of $2,000

**Class of 1933 Scholarship [C0062]**

Established by the graduating class of 1933 in honour of the late Professor W.J. Squirrell. Academic standing and involvement in extracurricular activities will be used to determine the recipients. Apply by April 1 to the O.A.C. Awards Office.

**Donor(s):** Graduating Class of 1933

**Qualification(s):** Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’ Honours List.

**Amount:** 1 award of $900

**Clayton and Dorothy Switzer Scholarships [I0276]**

Apply by May 15 to the OAC Dean's Office (Awards) with a letter outlining how you have demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal. Awarded in the fall semester.

**Donor(s):** Clayton and Dorothy Switzer

**Qualification(s):** Students registered in a degree program offered by O.A.C. with a minimum of 10.0 credits completed, at least a 70% cumulative average and has demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal.

**Amount:** 1 award of $2,000

**Coach Rudy Florio Football Scholarship [I0737]**

Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Mr. Rudy Florio

**Qualification(s):** Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $3,500

**Collins Barrow Award [I0040]**

Offered by Collins Barrow, a national firm of Chartered Accountants. Application is not required.

**Donor(s):** Collins Barrow Chartered Accountants

**Qualification(s):** Student with the highest grade in course ACCT*3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship will be given to the student with the highest cumulative average in their program.

**Amount:** 1 award of $500

**Credit Valley Horticultural Society Scholarship [I0467]**

Apply by May 15 to the O.A.C. Dean's Office with a letter of no more than two pages outlining participation in extracurricular activities in the field of ornamental horticulture. Selection will be based on this participation with a preference given to students who are residents of Mississauga.

**Donor(s):** Credit Valley Horticultural Society

**Qualification(s):** O.A.C. student studying in horticulture who has completed 5.0 credits with a minimum 70% average.

**Amount:** 1 award of $1,000

**David F. Boyes Apiculture Scholarship [I0031]**

Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application is not required.

**Donor(s):** The Apiculture Club

**Qualification(s):** Student registered in the Fall semester who has achieved high academic standing in Introductory Apiculture (ENVEB*2210) in the previous year, demonstrates an interest in apiculture and who has participated in extracurricular activities.

**Amount:** 1 award of $150

**Dawn Morris Memorial Prize [C0361]**

Offered in memory of Dawn Morris, who spent 35 years in farm show business and was former Manager of the Canadian International Farm Equipment Show in Toronto. Selection will be on the basis of relevant course work in agricultural marketing, extracurricular participation and employment activities. Students are encouraged to submit information on extracurricular activities to the O.A.C. Awards Office, by April 1.

**Donor(s):** The Family of Dawn Morris

**Qualification(s):** Student who is graduating from the Agricultural Business major of the B.Comm. degree or the Food Agriculture and Resource Economics major in the B.Sc.(Agri) degree with a minimum ’B+’ average.

**Amount:** 1 award of $900

**Deans’ Scholarships [I0323]**

This award was established by the Board of Governors’ in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.

**Donor(s):** Board of Governors

**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.

**Amount:** 150 awards of $1,000

**Deep Creek Dairies Ltd. Scholarship [I0654]**

Established by C. Di Giacomo in memory of Adri van den Tillaart, owner of Deep Creek Dairies, a hardworking, kind, tough, ingenious dairy/beef farmer. Selection will be based on academic achievement and demonstrated leadership ability and involvement in 4H, University of Guelph Dairy Challenge Team, University of Guelph Animal Science Club or University of Guelph Dairy Science Club. Apply by May 15 to the OAC Awards Committee, with a letter of no more than two pages listing the Animal Science courses taken and outlining demonstrated leadership and involvement in the clubs mentioned.

**Donor(s):** Carmine Di Giacomo

**Qualification(s):** Students enrolled in the B.Sc.(Agri) program or the Animal Biology major of the B.Sc. program with a minimum cumulative average of 75%, who are specializing in dairy or beef farming and are involved in 4H, University of Guelph Dairy Challenge Team, University of Guelph Animal Science Club or University of Guelph Dairy Science Club.

**Amount:** 1 award of $1,000

**Doug Wakely Memorial Scholarship [I0334]**

Provided by the friends and business associates of the late Doug Wakely. Preference will be given to students from the counties/regions of Wellington, Huron, Bruce, Perth or Waterloo. Apply by May 15 to the OAC Dean’s Office (Awards) with a letter listing course(s) in livestock production or in grain crop production that you have completed and outlining participation in athletics at the University, intramural or community level as a player or in an organizing capacity. Awarded in the fall semester.

**Donor(s):** The Harriston Group of the Ontario Grain and Feed Dealers

**Qualification(s):** Students registered in the B.Sc.(Agri) program who have completed course(s) in livestock production or in grain crop production and who have participated in athletics at the University, intramural or community level as a player or in an organizing capacity.

**Amount:** 1 award of $500
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>George A. Gray O.A.C. ’51 Varsity Scholarships [10487]</strong></td>
<td>Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>Mrs. George A. Gray</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>2 awards of $1,250</td>
</tr>
</tbody>
</table>

| **Mr. and Mrs. Ross G. Putnam** | Provided in memory of their son Gary by Mr. and Mrs. Ross Putnam. Apply to the O.A.C. Awards Office by letter (no more than 2 pages) outlining the horticulture/vegetable production courses taken and include any work related experience. |
| **Amount:** | 1 award of $1,000 |

| **Gary Ireland Horticultural Scholarship [10773]** | Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary. |
| **Donor(s):** | Ontario Fruit & Vegetable Convention |
| **Qualification(s):** | Students registered in the Crop, Horticulture and Turfgrass or the Organic Agriculture majors of the B.Sc.(Agr) program or the Plant Science major of B.Sc. program who have completed a minimum of 8.0 credits with a minimum 70% cumulative average. |
| **Amount:** | 1 award of $2,000 |

| **Gary Putnam Memorial Prize [C0241]** | Provided in memory of their son Gary by Mr. and Mrs. Ross Putnam. Apply to the O.A.C. Awards Committee by April 1 with a letter demonstrating interests in pesticides, insect, and/ or weed control. |
| **Donor(s):** | Mr. and Mrs. Ross G. Putnam |
| **Qualification(s):** | Graduating B.Sc.(Agr) student with high standing in at least 3 courses in pesticides or alternative methods of insect, disease and weed control. |
| **Amount:** | 1 award of $600 |

| **The Innovative Farmers Association of Ontario** | In memory of Douglas Robinson (O.A.C.’53), and in conjunction with the establishment of an innovative curriculum in agricultural science at the University of Guelph in 1995, the Innovative Farmers’ Association of Ontario and the Robinson family provide this annual prize. Apply by May 15th to the OAC Awards Office, Johnston Hall with a letter describing how these courses have helped to communicate effectively and indicate ways in which the courses have been used to contribute to success. A letter from the course instructor would also be considered. Selection will be based on demonstrated excellence in communication. |
| **Donor(s):** | The Innovative Farmers Association of Ontario |
| **Qualification(s):** | Students registered in any degree program offered by OAC who have completed one or more of the following courses with a minimum grade of 75% in each course completed: EDRD*3050 Agricultural Communication; EDRD*3120 Educational Communication; EDRD*3140 Organizational Communication; EDRD*3160 International Communication; ENVB*3000 Nature Interpretation. |
| **Amount:** | 1 award of $1,000 |

| **Foodland Hydro Scholarship [10290]** | The Foodland Hydro Scholarship was established by the Foodland Hydro Committee. Preference may be given to a student from Bruce, Huron or Middlesex Counties. Apply to the OAC Awards Office by May 15th, with a letter of no more than 2 pages outlining the student’s interest in agricultural environmental issues as they are affected by the public interest process. |
| **Donor(s):** | Foodland Hydro Committee |
| **Qualification(s):** | Student who has completed semester 6 in the B.Sc.(Agr) program and who has an interest in agricultural environmental issues as they are affected by the public interest process. |
| **Amount:** | 1 award of $500 |

| **Football Endowment Fund (FEF) Scholarship [10644]** | Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required. |
| **Donor(s):** | Various University of Guelph donors |
| **Qualification(s):** | In-course student-athlete who is a current member of the Men's football team and has achieved a minimum 70% average in the previous academic year. |
| **Amount:** | various awards of $750 to $3,500 |

| **Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [10695]** | Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary. |
| **Donor(s):** | Various Donors |
| **Qualification(s):** | Current member of the Varsity Cross/Country or Track and Field Team, who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete |
| **Amount:** | 1 award of $1,350 |

| **Dr. R. J. Hilton Memorial Scholarship [10678]** | Established to honour the accomplishments of Dr. Hilton as the Chair, Horticulture Science, University of Guelph, first Director of the Arboretum and President/Chair of the Royal Botanical Gardens. Selection will be based on the highest cumulative average, demonstrated involvement in horticulture activities and involvement in academic club activities. Summer related work experience will also be considered. Preference will be given to students registered in B.Sc.(Agr) CHATS and B.Sc. Plant Science. Apply by May 15 to the O.A.C. Awards Office with a letter outlining the plant agriculture course(s) and/or involvement in horticultural activities and summer related work experience or information about involvement in academic club activities. |
| **Donor(s):** | Robert E. Hilton |
| **Qualification(s):** | Students registered in any program offered by O.A.C. who have completed a minimum 8.0 credits with a minimum 70% cumulative average. |
| **Amount:** | 1 award of $1,000 |

| **Elaine Scott-Thomas Track and Field Scholarship [10706]** | The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary. |
| **Donor(s):** | Dave Scott-Thomas CBS BSc ’88 |
| **Qualification(s):** | Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete |
| **Amount:** | 1 award of $1,500 |

| **Foodland Hydro Committee** | In memory of Douglas Robinson (O.A.C.’53), and in conjunction with the establishment of an innovative curriculum in agricultural science at the University of Guelph in 1995, the Innovative Farmers’ Association of Ontario and the Robinson family provide this annual prize. Apply by May 15th to the OAC Awards Office, Johnston Hall with a letter describing how these courses have helped to communicate effectively and indicate ways in which the courses have been used to contribute to success. A letter from the course instructor would also be considered. Selection will be based on demonstrated excellence in communication. |
| **Donor(s):** | The Innovative Farmers Association of Ontario |
| **Qualification(s):** | Students registered in any degree program offered by OAC who have completed one or more of the following courses with a minimum grade of 75% in each course completed: EDRD*3050 Agricultural Communication; EDRD*3120 Educational Communication; EDRD*3140 Organizational Communication; EDRD*3160 International Communication; ENVB*3000 Nature Interpretation. |
| **Amount:** | 1 award of $1,000 |

| **Foodland Hydro Scholarship [10290]** | The Foodland Hydro Scholarship was established by the Foodland Hydro Committee. Preference may be given to a student from Bruce, Huron or Middlesex Counties. Apply to the OAC Awards Office by May 15th, with a letter of no more than 2 pages outlining the student’s interest in agricultural environmental issues as they are affected by the public interest process. |
| **Donor(s):** | Foodland Hydro Committee |
| **Qualification(s):** | Student who has completed semester 6 in the B.Sc.(Agr) program and who has an interest in agricultural environmental issues as they are affected by the public interest process. |
| **Amount:** | 1 award of $500 |

| **Football Endowment Fund (FEF) Scholarship [10644]** | Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required. |
| **Donor(s):** | Various University of Guelph donors |
| **Qualification(s):** | In-course student-athlete who is a current member of the Men's football team and has achieved a minimum 70% average in the previous academic year. |
| **Amount:** | various awards of $750 to $3,500 |

| **Frank and Gertraude Hurnik Scholarship [10455]** | Provided by Dr. Frank Hurnik, Professor Emeritus, and faculty member in Animal and Poultry Science from 1971 to 1997. Dr. Hurnik initiated work in behavioral studies and animal welfare at Guelph, developed the first course in Animal Welfare, and was co-founder and editor of the Journal of Agricultural and Environmental Ethics. Apply by letter to the Chair, Animal and Poultry Science, by May 15 outlining details of the project or meeting. The award will be given to the student who has the best presentation, paper or project. Preference is given to Graduate students. |
| **Donor(s):** | Dr. Frank Hurnik |
| **Qualification(s):** | Students registered in the O.A.C. who are associated with the department of Animal & Poultry Science and who undertake a project or attend a conference/scientific meeting or publish a paper in animal welfare or agricultural ethics may apply. A minimum of an “A” standing for in the last two semesters is required. |
| **Amount:** | 1 award of $1,000 |

| **Gary Ireland Horticultural Scholarship [10773]** | Selection will be based on demonstrated interest in horticulture/vegetable production and academic standing. Apply by May 15th to the OAC Awards Office by letter (no more than 2 pages) outlining the horticulture/vegetable production courses taken and include any work related experience. |
| **Donor(s):** | Ontario Fruit & Vegetable Convention |
| **Qualification(s):** | Students registered in the Crop, Horticulture and Turfgrass or the Organic Agriculture majors of the B.Sc.(Agr) program or the Plant Science major of B.Sc. program who have completed a minimum of 8.0 credits with a minimum 70% cumulative average. |
| **Amount:** | 1 award of $2,000 |

| **Gary Putnam Memorial Prize [C0241]** | Provided in memory of their son Gary by Mr. and Mrs. Ross Putnam. Apply to the O.A.C. Awards Committee by April 1 with a letter demonstrating interests in pesticides, insect, and/or weed control. |
| **Donor(s):** | Mr. and Mrs. Ross G. Putnam |
| **Qualification(s):** | Graduating B.Sc.(Agr) student with high standing in at least 3 courses in pesticides or alternative methods of insect, disease and weed control. |
| **Amount:** | 1 award of $600 |

| **George A. Gray O.A.C. ’51 Varsity Scholarships [10487]** | Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester. |
| **Donor(s):** | Mrs. George A. Gray |
| **Qualification(s):** | In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year. |
| **Amount:** | 2 awards of $1,250 |
George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [I0677]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** George Ames  
**Qualification(s):** In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year. 
**Amount:** 1 award of $3,500

Gerd and Christel Baldauf Men’s Basketball Scholarship [I0639]

Established by Christian Baldauf, BSc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. Christian Baldauf  
**Qualification(s):** In-course student-athlete registered in the BSc. program who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year. 
**Amount:** 1 award of $3,500

Glen (Andy) W. Anderson Scholarship [I0380]

Family and friends of Glenn (Andy) Anderson (O.A.C.’54 Crop Science) have created a scholarship to honour him at the time of his retirement after 41 years as a Professor in O.A.C. He had an interest in weed science throughout his career. Selection will be based on performance in courses in weed science, summer employment and/or work activity in the agricultural chemical industry and/or leadership activities in weed science and related areas. Preference will be given to a student who has resided in Ontario for at least 12 months prior to admission to the University of Guelph. Apply by May 15 to the OAC Dean’s Office (Awards) with a letter listing courses in weed science you have taken and outlining your extracurricular activities, community service or agricultural employment.

**Donor(s):** Anderson Family  
**Qualification(s):** Offered to O.A.C. diploma students with an interest in agronomy or crop science who enter the B.Sc.(Agr.) Degree program and who have completed 6.0 credits of the B.Sc.(Agr.) degree program or the B.Com. Agricultural Business major or 10.0 credits of the Bachelor of Bio-Resource Management degree program. 
**Amount:** 1 award of $600

Governor General’s Medal [C0044]

Established by the Office of the Governor General of Canada. Application is not required.

**Donor(s):** The Chancellery  
**Qualification(s):** Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average. 
**Amount:** 2 awards of a Silver medal each

Growmark, Inc. and Ontario FS Cooperatives Scholarship [I0289]

Apply by May 15th to the OAC Awards Office with a letter of no more than two pages outlining your extracurricular activities, community service or agricultural employment, farming background and career aspirations. Preference will be given to students with an Ontario farm background and interest in pursuing full-time employment in agriculture in the province of Ontario after graduation. Selection will be made on leadership abilities as demonstrated by involvement in extracurricular activities, community service or agricultural employment.

**Donor(s):** Growmark, Inc.  
**Qualification(s):** Students with a minimum of 70% cumulative average who have completed 6.0 credits of the B.Sc.(Agr.) degree program or the B.Com. Agricultural Business major or 10.0 credits of the Bachelor of Bio-Resource Management degree program. 
**Amount:** 2 awards of $1,000

Gryphon Athletic Scholarships [I0631]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** University of Guelph  
**Qualification(s):** In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.
**Amount:** various awards of $750 to $3,500

Heimbecker Scholarship in Entrepreneurship [I0388]

The Heimbecker Award in Entrepreneurship has been established by the friends and associates of Herb Heimbecker, on his retirement as a Director of Goderich Elevators, to honour his contributions to the agri-food industry in Canada. Students should apply by May 15 to the O.A.C. Awards Office and include a resume and a letter highlighting their entrepreneurial skills and their aptitude and interest in business. Awarded in the fall semester.

**Donor(s):** The friends of Herb Heimbecker at Goderich Elevators  
**Qualification(s):** Students registered in the B.Sc.(Agr.) or B.Comm., Agribusiness major, who have completed semester 6 with a minimum ‘B’ standing (73%-76%) in their previous full-time year or equivalent [5.00] credits, have demonstrated entrepreneurial skills and display an aptitude and an interest in business.
**Amount:** 1 award of $750

International Undergraduate Scholarship [I0577]

Established through a student referendum approved by the undergraduate student body, to recognize international students’ academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University and two academic and/or professional references. This award can only be held once by the student.

**Donor(s):** International Student Organization (ISO)  
**Qualification(s):** Full-time International students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%. 
**Amount:** 2 awards of $2,000

Intervet Canada Poultry Health Prize [C0327]

Awarded at graduation. Evaluated by the faculty in the Department of Animal and Poultry Science. Application is not required.

**Donor(s):** Intervet Canada Inc.  
**Qualification(s):** Student enrolled in the B.Sc.(Agr.) program registered in courses AGR*4400 or AGR*4500 who submits a paper on some aspect of poultry health as it relates to poultry production. 
**Amount:** 1 award of $500

Jack and Lillian MacDonald Scholarship [E0379]

Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald  
**Qualification(s):** Students graduating from the Six Nations Polytechnic (SNP). 
**Amount:** 1 award of $900

James MacMillan Memorial Scholarship [10494]

Established in memory of James MacMillan, his great uncle, by Austin Conway of Toronto. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter indicating the program at Kemppville in which the applicant graduated from to Student Financial Services by October 7.

**Donor(s):** Austin Conway  
**Qualification(s):** Kemppville College graduate with a minimum 75% cumulative average at convocation who registers in the O.A.C. degree program in Agriculture or in Agriculture and Business. 
**Amount:** 1 award of $2,500
Jim Stokman Memorial Scholarship [I0386]
Mrs. Stokman and family, including her sons Nick (O.A.C.’77) and Andrew (O.A.C.’84) have established this award in memory of her husband and their father to recognize his lifetime contribution to the family farm. Apply by May 15th to the OAC Awards Office with a letter that indicates rural background and demonstrated community/student involvement both during high school and the first two semesters of University.

Donor(s): Mrs. Jim Stokman
Qualification(s): Available to O.A.C. students who have completed 5.0 credits with at least ‘B’ average in one of the following programs: B.Sc.(Agr.), B.Comm., B.Sc or B.Sc.(Env.). Students must have come from a rural background and have demonstrated community/student involvement both during high school and the first two semesters of University.
Amount: 1 award of $550

Joerg and Franzis Leiss Horticultural Scholarship [I0565]
Selection will be based on the highest cumulative average in the horticulture (HORT) courses normally taken in years 1 and 2. In the event of a tie, financial need may be considered. Application is not required.

Donor(s): Mr. Joerg Leiss, O.A.C. ’63
Qualification(s): Students with a minimum cumulative average of 75% who have completed at least 10.0 credits and are currently registered in the Bachelor of Science in Agriculture with a major in Horticultural Science or Environmental Science.
Amount: 1 award of $1,500

John A. Archibald Memorial Scholarship [I0014]
Awarded in memory of John A. Archibald, former Director of the Horticultural Research Institute of Ontario. Apply by May 15 to the OAC Dean’s Office (Awards) with a letter listing courses taken in Land Resource Science along with an outline of your participation in any extracurricular activities.

Donor(s): The friends and associates of the late John A. Archibald
Qualification(s): Outstanding student with an interest in courses in the Department of Land Resource Science who has completed semester 6. The recipient will be chosen on the basis both of high academic standing and participation in extracurricular activities.
Amount: 1 award of $750

John Burton Scholarship [I0642]
Established by Dr. John Burton, BSA 1962, a former faculty member in the Department of Animal and Poultry Science. Selection will be based on involvement with and contribution to the horse industry, future career aspirations in the horse industry sector and participation in community activities. Preference will be given to student who have demonstrated leadership ability within the student body. Apply by May 15 to the OAC Awards Office with a letter, of no more than two-pages, outlining involvement with and contributions to the horse industry, career aspirations, and extracurricular involvements. Awarded in the fall semester.

Donor(s): Dr. John Burton
Qualification(s): Students registered in any program offered by the OAC who have completed between 10.0 and 12.0 credits with a minimum 70% average
Amount: 1 award of $1,000

John Deere Foundation of Canada Scholarship [I0516]
Established through the generosity of The John Deere Foundation of Canada to recognize academic excellence. Application is not required.

Donor(s): The John Deere Foundation of Canada
Qualification(s): Student registered in the B.Sc Agr (Food Agriculture and Resource Economics), B.Sc.(Agr.) Agromony, B.A. (Food Agriculture and Resource Economics), or B.Comm (Agricultural Business) program who has completed a minimum of 15.0 credits. Selection will be based on the student with the highest cumulative average. A student may be receive this award once only.
Amount: 1 award of $2,000

John Eccles Scholarship [I0093]
Apply to Student Financial Services, by May 15, with a letter highlighting leadership abilities through participation on residence life. Providing a reference letter would be an asset.

Donor(s): Student Housing Services
Qualification(s): Full-time student registered in semester 2, 3, 4, 5 or 6 and living in residence in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.
Amount: 1 award of $600

John Partanen Scholarship [I0785]
Selection will be based on high academic achievement and volunteer service to the community service. Apply to the OAC Awards Office by May 15th, with a letter of no more than 2 pages outlining volunteer service to the community.

Donor(s): John Partanen Estate
Qualification(s): Students registered in the BSc(Agr) program who have completed a minimum of 10.0 credits
Amount: 1 award of $1,000

Joseph Arlen Memorial Prize in Horticulture [C0330]
Application is not required.

Donor(s): Mrs. Judy Arlen
Qualification(s): Students graduating from the B.Sc.(Agr.) program with an interest in Horticultural Science with the highest cumulative average in all semesters
Amount: 1 award of $500

Kae and Gordon Skinner Memorial Scholarship [C0258]
Provided by the late Kae Stalker Skinner (Mac ’30) and Gordon Skinner (O.A.C.’24), former Registrar of the Ontario Institute of Agrologists. Consideration will be given to participation in the Student Branch of the Ontario Institute of Agrologists. Apply to the O.A.C. Awards Office by April 1 with a letter demonstrating contributions to agrology.

Donor(s): The estates of the late Mr. and Mrs. A.G. Skinner
Qualification(s): O.A.C. student graduating from the B.Sc.(Agr.), B.Sc., or B.Comm. programs who has made a significant contribution to developing an understanding of the profession of agrology among fellow students.
Amount: 1 award of $750

Kelly Bertrand Cross Country Scholarship [I0684]
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Kelly Bertrand
Qualification(s): Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $2,000

Kenneth W. Hammond Prize [I0045]
The evaluation of the student will be based on the final essay in the "Environmental Perspectives and Human Choice: 5000 Days’ course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arborcetum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

Donor(s): Kenneth W. Hammond
Qualification(s): Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.
Amount: 1 award of $1,000

Kevin Durie Memorial Scholarship [I0653]
Established in memory of Kevin Durie, BA ’93, by his family and friends. Selection will be based on the evaluation of outstanding service as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

Donor(s): Christine Blake-Durie
Qualification(s): Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.
Amount: 1 award of $1,000

Kip Hunter Prize [I0139]
For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

Donor(s): Faculty, students and staff of the Philosophy Department
Qualification(s): Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.
Amount: 1 Book prize
Lambda Foundation Scholarship in LBGT Studies [10591]
This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a student only once. Projects must have been completed or research proposals accepted within the past calendar year.

**Donor(s):** Lambda Foundation and other donors

**Qualification(s):** Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.

**Amount:** 1 award of $1,000

Larry Pearson Men’s Volleyball Athletic Scholarships [10618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson

**Qualification(s):** In-course student-athlete who is a current member of the men’s varsity volleyball team and has achieved a minimum 70% average in the previous academic year.

**Amount:** several awards up to $3,500

Latifpoor-Keparoutis Family Varsity SwimTeam Scholarship [10732]
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Maryam Latifpoor-Keparoutis

**Qualification(s):** Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,200

Leonard Conolly Exchange Student Scholarship [10446]
Established by students, faculty, staff and friends in honour of Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

**Donor(s):** Students, staff, faculty and friends of Dr. Leonard Connolly

**Qualification(s):** Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).

**Amount:** 1 award of $1,000

Lloyd Dorr Memorial Hockey Scholarship [10708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Family and Friends of the late Lloyd Dorr

**Qualification(s):** Current member of the men’s varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $1,000

Marion McKenzie Scholarships for Outstanding Achievement in History [10470]
These prizes have been established in memory of Marion McKenzie (1905-1994), a teacher who had a love of learning and a continuing curiosity about the world both past and present. These are awarded to the top student in each of the required core courses in the History program (HIST*1010, HIST*2450, HIST*2602). Application is not required.

**Donor(s):** TBA

**Qualification(s):** The recipient for HIST*1010 must have completed no more than 5.0 credits; the recipient for HIST*2450, no more than 10.0 credits and be in the history program; and the recipient for HIST*2602, no more than 10.0 credits.

**Amount:** 3 awards of $400

Men’s Basketball Scholarships [10638]
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Anonymous (Alumnus)

**Qualification(s):** In-course student-athlete who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 4 awards of $2,500

Men’s Soccer Alumni Scholarship [10771]
Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)

**Qualification(s):** Current member of the Gryphon Men’s Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** several awards ranging in value from $1,000 to $3,500

Nathan Max Goldman Choir Scholarships [10774]
Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and/or the Chamber Choir. One award will be available to a student in each choir and will be given to the candidate who best combines high vocal achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required, as a recommendation by Choir Director will be made to the SOFAM Awards Committee.

**Donor(s):** Mrs. Anne Goldman and the family of Nathan Max Goldman

**Qualification(s):** Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and/or the Chamber Choir and have been a member of the University of Guelph Choirs for at least two years.

**Amount:** 2 awards of $1,000

O.A.C. ‘45 Public Speaking Prize [C0200]
Offered by the Class of ’45 O.A.C., on the occasion of their 40th anniversary. Application is not required.

**Donor(s):** Year ‘45 O.A.C.

**Qualification(s):** Graduating students in the B.Sc.(Agr.) or B.Comm.(Agricultural Business) programs who have demonstrated proficiency in public speaking and communication.

**Amount:** 1 award of $1,000

O.A.C. ’55 Scholarships [10064]
Provided by the class of O.A.C. ’55. Recipients will have made an outstanding contribution to College life through academic proficiency and participation in extracurricular activities and can be considered to have done the most for the College, for fellow students and in their personal development. Apply by May 15 to the OAC Dean’s Office (Awards) with a letter outlining your participation in extracurricular activities. Awarded in the fall semester.

**Donor(s):** O.A.C. ‘55

**Qualification(s):** Students registered in any O.A.C. degree program or students registered in the B.ENG. program that have completed a minimum of 10.0 with at least a 70% cumulative average.

**Amount:** 1 award of $2,000
O.A.C. Centennial Graduate Prizes [C0209]
The Ontario Agricultural College celebrated its 100th Anniversary in 1974. Many organizations and companies associated with the agricultural industry provided funds in conjunction with the Centennial activities. Funds have been established in perpetuity as a permanent commemoration of the Centennial of the College. Apply to OAC Awards Office by April 1 with a letter outlining extracurricular activities. Selection will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the student's university career.

Donor(s): Dean, O.A.C.
Qualification(s): Students graduating from a degree program administered by the Ontario Agricultural College and who plan to pursue graduate studies in any department or school of the Ontario Agricultural College in the year of baccalaureate graduation. The fellowship will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the student's university career.

Amount: 1 award of $2,200

O.A.C. Students' Federation Medal [C0217]
Application is not required.

Donor(s): O.A.C.
Qualification(s): Graduating student in an undergraduate program in a major in an O.A.C. department who has been an outstanding leader in student activities at the College level throughout his or her University career.

Amount: 1 award of a Medal

Ontario Agri Business Association Scholarships (formerly Fertilizer Institute) [I0101]
Provided by the Ontario Agri Business Association to worthy students in the B. Sc.(Agr.) program. Apply to the O.A.C. Awards Committee by May 15 with a letter up to two pages in length detailing your involvement.

Donor(s): Ontario Agri Business Association
Qualification(s): These scholarships are presented to students who have completed between 10.0-15.0 credits in the B.Sc.(Agr.) program. Academic achievement based on cumulative average and participation in extra curricular activities will be considered in making these awards.

Amount: 1 award of $400

Ontario Horticultural Association Scholarship [I0433]
Provided by the Ontario Horticultural Association. Apply to the O.A.C. Awards Office by May 15.

Donor(s): Ontario Horticultural Association
Qualification(s): Student in the B.Sc.(Agr.) program who has excelled in courses in horticultural science and who has completed semester 6.

Amount: 1 award of $500

Ottawa-Carleton 1983 International Ploughing Match (O.A.C.) Scholarship [I0227]
Apply, by May 15, to the O.A.C. Awards Committee with a letter outlining extracurricular activities.

Donor(s): Ottawa-Carleton International Ploughing Match Committee 1983
Qualification(s): Students from the City of Ottawa who have completed between 5.0 and 9.75 credits in the in the B.Sc.(Agr.) program and who have a minimum cumulative average of 70%.

Amount: 1 award of $1,500

Priscilla and Stanford Reid Trust Prize [I0597]
Established in honour the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written about the history of Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.

Donor(s): Priscilla and Stanford Reid Trust Fund
Qualification(s): Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.

Amount: 1 award of $500

Professional Staff Association Scholarship [I0628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 by sending an email to awards@registrar.uoguelph.ca and include the name of the family member of the Professional/Managerial Group of the University, and/or retired Professional/Managerial Group of the University of Guelph. This award may be held more than once, however, not in consecutive years. Preference will be given to students of current or retired P.S.A. members.

Donor(s): Professional Staff Association
Qualification(s): Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University, and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.

Amount: 1 award of $1,500

Professor Victor Matthews Track and Field Scholarships [I0707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Various Donors
Qualification(s): Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

Amount: 1 award of $500

R.J. Watford Prize [C0304]
Recipients will have shown proficiency in the poultry courses in semesters 4 to 8. The student shall have a genuine interest in the poultry industry and special consideration will be given to a student who indicates a desire to establish some form of poultry production or who seeks employment in the poultry industry. Apply to the O.A.C. Awards Office by April 1 with a letter demonstrating poultry interests.

Donor(s): R.J. Watford
Qualification(s): Students graduating from a program offered by the O.A.C with a demonstrated interest in the poultry industry.

Amount: 1 award of $500

R.W. (Bob) Pawley Scholarship [I0231]
Apply by May 15 to the OAC Dean's Office (Awards) with a letter outlining your active participation or involvement in production agriculture. Awarded in the fall semester.

Donor(s): Mr. Robert W. Pawley, O.A.C. '39
Qualification(s): Student registered in the B.Sc.(Agr.) program with at least 10.0 credits completed and who demonstrates active participation or involvement in production agriculture.

Amount: 1 award of $600

Rachel Cliff Scholarship [I0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Ronald & Nancy Cliff
Qualification(s): Current member of the Women’s Middle Distance Team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

Amount: 1 award of $1,500

Robert Harcourt Scholarships [I0121]
Established, by the estate of Mrs. R. Harcourt in memory of the late Dr. Robert Harcourt. Selection will be based on highest cumulative averages for those entering year 3 and year 4. One scholarship will be awarded to year 3 entering students and one to year 4 entering students. Application is not required.

Donor(s): Estate of Mrs. R. Harcourt
Qualification(s): Students entering year 3 having completed 9.0 credits and year 4 having completed 14.0 credits in a program offered by the School of Environmental Sciences.

Amount: 2 awards of $750
Robert McCann Memorial Scholarship [I0184]

Mrs. Edward McCann offers this scholarship in memory of her son. Apply to the O.A.C. Awards Office by May 15.

**Donor(s):** Mrs. Edward McCann in honour of her son

**Qualification(s):** Student who has completed the 4th semester level and entering the 5th semester level with an interest in agroecosystem management. The student must have obtained 70% standing at the end of the 4th semester level and must have been active in student activities.

**Amount:** 1 award of $750

Robert S. and Ethelyne L. Fulkerson Scholarship [I0382]

Professor Robert S. Fulkerson, a former faculty member in the Department of Crop Science and graduate of O.A.C. in 1946, and his wife Ethelyne, have endowed two annual awards. Applications along with a completed Financial Need Assessment Form (N.A.F.) should be submitted to Student Financial Services by May 15.

**Donor(s):** Professor Robert S. and Ethelyne L. Fulkerson

**Qualification(s):** Students in agronomy or crop science who have completed semester 6 with at least 70% cumulative average, have an interest in crop production, and are in financial need may apply.

**Amount:** 1 award of $1,000

Ross Jones Memorial Prize [C0047]

In memory of Ross Jones, ’71 O.A.C., his friends, colleagues and classmates. Apply with a letter by April 1 to the O.A.C. Awards Office, OAC Dean’s Office.

**Donor(s):** Year ’71 O.A.C.

**Qualification(s):** Graduating student who demonstrates the greatest potential in the area of Weed Science

**Amount:** 1 award of $600

Russell Athletic Scholarships [I0722]

The recipients will be selected based on demonstrated leadership qualities and contributions to the team. Coaches will nominate students to the Athletic Awards Committee. No application necessary.

**Donor(s):** H.D. Brown Enterprises Ltd.

**Qualification(s):** Current members of a University of Guelph Varsity Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 4 awards of $2,500

Samuel Carr Prize [C0048]

Offered from the estate of Samuel Leister Carr. Apply by letter to the O.A.C. Awards Committee by April 1.

**Donor(s):** The estate of the late Samuel Lester Carr

**Qualification(s):** Student completing the requirements for the B.Sc.(Agr.) program with a minimum of 70% standing in semester levels 7 and 8 and who has demonstrated willingness to assume responsibility and leadership in College and community activities. Preference will be given to candidates who, upon graduation, take an active part in the operation of a farm, that are involved with the management and day-to-day operation of the farm, farm related business, or horticultural enterprise and who have a capital investment in the farm or business.

**Amount:** 1 award of $1,500

Shur-Gain, Nutreco Canada Inc. Scholarship [I0307]

Provided by Shur-Gain, a member of Nutreco Canada Inc. to a student that demonstrates high academic achievement and evidence of leadership and contribution to the university and/or community life. Apply by May 15 to the O.A.C. Awards Office with a letter of not more than 2 pages outlining leadership contributions. Awarded in the fall semester.

**Donor(s):** Shur-Gain

**Qualification(s):** Students registered in Animal Science or Animal Biology majors who have completed between 8.0 and 11.0 credits.

**Amount:** 1 award of $750

Society of Management Accountants of Ontario Scholarship [C0268]

The scholarship will be awarded at summer convocation. Application is not required. One award of $500 and a free course enrolment in the first complete CMA subject enrolled in the Society's program.

**Donor(s):** Society of Management Accountants, Grand River Chapter

**Qualification(s):** Full-time student graduating from B.Com., B.A. (minor in Business Administration), or B.Sc. (minor in Business Administration), or B.Sc.(Agr.) (major in Agriculture Business or Food Agriculture and Resource Economics), programs. Student with the highest average in the 2 courses Financial Accounting ACCT*2220 and Intermediate Accounting ACCT*3330.

**Amount:** 1 award of $500, and a free course enrolment in the first complete CMA subject enrolled in the Society’s program

Sprung Family Men’s Basketball Scholarship [I0672]

Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Mr. Timothy Sprung

**Qualification(s):** In-course student-athlete who is a current member of the Men’s basketball team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $3,500

Stephanie Wilken Volunteer Scholarship [I0449]

Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to Student Financial Services with letter indicating the kind and extent of volunteer activities at the Wellness Centre by October 1. Selection committee is the Senate Committee on Awards on the recommendation of the Student Wellness Educator at the Wellness Centre.

**Donor(s):** Bev and Darlene Wilken

**Qualification(s):** Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre.

**Amount:** 1 award of $1,000

T.K. Warley Agrifood Policy Prize [I0212]

Established by Prof. T.K. Warley, former Chair of the Department of Food Agriculture and Resource Economics and a faculty member of the Ontario Agricultural College from 1970 to 1991. Application is not required.

**Donor(s):** Professor T.K. Warley

**Qualification(s):** Student providing the best term paper written on a public policy issue relating to the agrifood system or rural society in courses such as AGEC*3030 Price and Production Analysis, AGEC*4000 Agricultural and Food Policy, and AGEC*4720 Special Study in Food Agriculture and Resource Economics.

**Amount:** 1 award of $500

Thomas H. Peters Scholarship [I0233]

Application is not required.

**Donor(s):** Friends and associates of Thomas H. Peters

**Qualification(s):** Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.

**Amount:** 1 award of $250

Tom Mooney Scholarship [I0709]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors

**Qualification(s):** Current member of the varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $1,000 to $3,500

Toronto District Beekeepers' Association Scholarship [I0285]

A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application is not required.

**Donor(s):** Mr. Jack Robinson

**Qualification(s):** The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.

**Amount:** 1 award of $500

United Steelworkers Local 4120 Scholarship [I0293]

Apply to Student Financial Services by January 31 and provide the name of the USWA member and relationship to the applicant. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class standing in his or her previous full-time semester.

**Donor(s):** United Steelworkers LU4120

**Qualification(s):** Student who is a member or former member, or who is from the immediate family of a member of United Steelworkers LU 4120, and who is entering semester 2, 3, or 4 of a degree or diploma program in the Winter semester with a minimum 70% cumulative average.

**Amount:** 1 award of $1,000
### University of Guelph Alumni Legacy Scholarship [I0735]
Funded through donations made to the University of Guelph Alumni Memorial Fund in memory of deceased alumni. The recipient will be selected based on academic achievement and volunteer contributions to the University of Guelph community. Apply to Student Financial Services by May 15 with a cover letter indicating name, degree and year of graduation of alumnus/alumna relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.

**Donor(s):** Various donors c/o University of Guelph Alumni Association

**Qualification(s):** Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with both a minimum cumulative average of 75% and demonstrated volunteer leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumnus of the University of Guelph or its founding colleges.

**Amount:** 1 award of $1,000

### Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]
Selection will be made on the basis of participation in university activities and in the student’s home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

**Donor(s):** Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family

**Qualification(s):** Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.

**Amount:** 2 awards of $400

### W. Harold Minshall Scholarship [I0451]
Provided by Dr. W.H. Minshall (O.A.C.'33). Apply by May 15th to the OAC Awards Office with a letter indicating interest and aptitude in crop protection, particularly in weed biology and management and listing extra-curricular involvements. Awarded on the basis of academic standing in the relevant courses and participation in extra-curricular activities.

**Donor(s):** O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall

**Qualification(s):** O.A.C. students in the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree programs who have completed semester level 6 are eligible. Interest and aptitude in crop protection, particularly in weed biology and management. Interest in crop protection and achievement in courses such as CROP*4240, ENVB*3030, ENVB*3210, ENVB*4100, and ENVB*4240 will be considered.

**Amount:** 1 award of $1,100

### W.C. Vinegard Medal [C0311]
The W.C. Vinegard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** The Board of Governors of the University

**Qualification(s):** Graduating student who excels both academically and in extracurricular activities.

**Amount:** 1 award of a Gold medal

### W.H. Waddell Prize [C0300]
Established by Professor W.H. Waddell. Apply to the O.A.C. Awards Office by April 1 with a letter demonstrating interest in Crop Science.

**Donor(s):** Professor W.H. Waddell

**Qualification(s):** Graduating student in the Agronomy major who has a high academic standing in plant breeding and in genetics and has demonstrated an interest in Crop Science.

**Amount:** 1 award of $600

### W.N. Vaughan Medal [C0299]
Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** Friends of Walter N. Vaughan

**Qualification(s):** Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.

**Amount:** 1 award of a Medal

### Waterlool-Wellington CA Association Scholarship [I0367]
Provided by the Waterloo-Wellington Chartered Accountant's Association. Application is not required.

**Donor(s):** Waterloo-Wellington Chartered Accountants Association

**Qualification(s):** Student who achieves the highest academic standing in the course ACCT*3330, Intermediate Accounting.

**Amount:** 1 award of $100

### William A. Brechin Scholarship [I0574]
Established to honour the work of Maryon Brechin's husband, O.A.C. ’36, who dedicated his career to soil and water quality concerns. Students must have demonstrated interest and competence in soil and water quality issues such as employment or extracurricular experience in promoting environmental protection of soil and water resources. Apply by May 15 to the O.A.C. Awards Office by letter of not more than two pages.

**Donor(s):** Maryon Brechin

**Qualification(s):** Any student registered in a major offered by the Department of Land Resource Science who has completed a minimum 15.0 course credits.

**Amount:** 1 award of $1,000

### William Godfrey Memorial Scholarship in Horticultural Science [I0111]
In memory of William Godfrey, ’33 O.A.C. Apply to the O.A.C. Awards Office by May 15. One award of $1,600 (two payments of $800).

**Donor(s):** Mrs. Lisabel Godfrey

**Qualification(s):** Student with and interest in Horticultural Science who has completed a semester 4 or 6 with a minimum of 70% standing, who has participated in extracurricular activities and who has an interest in tree fruit production. The scholarship is payable in 2 installments with the second installment conditional upon the student obtaining a minimum of 70% standing in semester 5 or 6 and registering in a graduate program in Horticultural Science as applicable.

**Amount:** 1 award of $1,000

### William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships [I0703]
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

**Donor(s):** Mrs. Irene McEwen

**Qualification(s):** Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

**Amount:** Numerous awards ranging in value from $750 to $3,500

### William P. Weber Football Scholarship [I0634]
Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. William P. Weber

**Qualification(s):** In-course student-athlete who is a current member of the Men's Football team and achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $2,500

### In-course Scholarships with Financial Need

#### 3M Canada Scholarships [I0564]
Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** 3M Canada Company

**Qualification(s):** Students entering Year 4 (ie, having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.

**Amount:** various award of up to $4,000
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount(s)</th>
<th>Qualification(s)</th>
<th>Donor(s):</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Guelph 175th Anniversary Scholarships [10015]</td>
<td>1 award of $2,000</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 70.0% cumulative average, demonstrated volunteer leadership on campus and/or in the community and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian citizens or permanent residents at the time of application.</td>
<td>The Guelph Community Foundation</td>
<td>Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.</td>
</tr>
<tr>
<td>Eleanor Morgan &amp; Bill Archibald Scholarships [14540]</td>
<td>1 award of $2,000</td>
<td>Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).</td>
<td>The Family of Eleanor &amp; Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>The family of Eleanor and Bill Archibald, with the assistance of the Ontario government’s OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD.</td>
</tr>
<tr>
<td>Erin Demers Memorial Scholarship [10406]</td>
<td>1 award of $1,000</td>
<td>Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.</td>
<td>Family and friends of Erin Katrina Demers</td>
<td>The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.</td>
</tr>
<tr>
<td>Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [14546]</td>
<td>1 award of $1,350</td>
<td>Students with demonstrated financial need who are members of the women's varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
<td>Ernest Kendall with matching funding through the Ontario Trust for Student Support program</td>
<td>Established by Ernest Kendall, O.A.C. BSA 1932, with the assistance of the Ontario government’s OTSS program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award you must list it on your N.A.F. Selection will be based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD.</td>
</tr>
<tr>
<td>Euclid-Hitachi Scholarships [14517]</td>
<td>2 awards of $1,500</td>
<td>Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government’s OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.</td>
</tr>
<tr>
<td>Graham Family Incentive Scholarship [14506]</td>
<td>1 award of $4,000</td>
<td>Students who are members of a varsity team and who have achieved a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Harvey Graham O.A.C. ’39 with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>Provided by Harvey Graham (O.A.C. ’39) with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD</td>
</tr>
<tr>
<td>John Embry Family Scholarship [14549]</td>
<td>2 awards of $3,500</td>
<td>Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
<td>Mr. John Embry with matching funding through the Ontario Trust for Student Support program</td>
<td>Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.</td>
</tr>
<tr>
<td>Landoni Athletic Scholarship [14405]</td>
<td>1 award of $1,000</td>
<td>Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.</td>
<td>Peter Landoni with matching funding through the Ontario Trust for Student Support program</td>
<td>Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, shoulder, lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD.</td>
</tr>
<tr>
<td>Nora Spence Memorial Scholarship [14394]</td>
<td>1 award of $1,000</td>
<td>Students who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.</td>
<td>George and Jane Spence in memory of their daughter Nora Spence, O.A.C. BSc.’06 with the aid of the Ontario government’s OTSS program.</td>
<td>This scholarship was created by George and Jane Spence in memory of their daughter Nora Spence, O.A.C. BSc.’06 with the aid of the Ontario government’s OTSS program. Selection will be based on academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
</tr>
</tbody>
</table>
O.A.C. '52 Scholarships [I4538]

Offered by the class of O.A.C.'52, with the assistance of the Ontario government's OSOTF program. Apply by letter highlighting involvement in leadership and community activities and/or university life along with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

Donor(s): O.A.C. '52 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. students enrolled in the B.Sc.(Agr.), B.Comm., B.Sc., or B.Sc.(Env.) programs who have demonstrated financial need, who are in good academic standing and who have demonstrated leadership. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: several awards of up to $4,000

R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [I0547]

Douglas (O.A.C.'39) and Kathleen (MAC '39) Kennedy met at a “hop” on campus in 1937 and later married. They established this scholarship to celebrate their time on campus and their 62 years of marriage. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy
Qualification(s): This scholarship will be awarded to a student in O.A.C. with high academic achievement and demonstrated financial need.
Amount: 1 award of $900

Residence Life Staff Scholarship [I0697]

Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.

Donor(s): Student Housing Services
Qualification(s): Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.
Amount: 2 awards of $500

Returning Student Residence Scholarship [I0696]

Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is an award conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.

Donor(s): Student Housing Services
Qualification(s): Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.
Amount: 3 awards of $500

Robert, Louis and Helen Shaw Memorial Degree Scholarships [I4520]

Established by the Shaw Scholarship Committee with the assistance of the Ontario government's OSOTF program. Apply with a letter, including a summary of local agricultural activities and a completed Financial Need Assessment Form (N.A.F.), to Student Financial Services by October 7. ACCESS AWARD

Donor(s): The Shaw Scholarship Committee with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in the BASc., B.Comm. in Agricultural Business, B.Sc.(Agr.) or D.V.M. programs studying agriculture, horticulture, equine studies, food and nutrition or veterinary sciences with demonstrated financial need, a 70% cumulative average and involvement in local agricultural activities. Preference will be given to first year students from Peterborough County. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: several awards of up to $2,500

Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [E4515]

Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS AWARD.

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student athlete who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent, and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: various awards of up to $3,500

Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [I4515]

Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of the women’s varsity ice hockey team who is enrolled in an undergraduate program with a minimum 70% average or equivalent during the previous academic year as a student-athlete who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: various awards of up to $3,500

Tara Lynn Giuliani Memorial Scholarship [I0375]

In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7.

Donor(s): The Giuliani Family
Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.
Amount: 1 varying amounts

Tony and Anne Arrell Scholarships [I0866]

Tony Arrell, OAC Bsc (Agri) '67 and Anne Arrell, MAC BHSC '68 have established 20 in-course awards for students with financial need. Awards will be distributed so that all colleges are represented. Apply by October 7 with a completed Financial Need Assessment Form to Student Financial Services. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Tony and Anne Arrell, Burgundy Asset Management
Qualification(s): Students registered in any degree program who have completed a minimum of 2.0 credits with a minimum 80% cumulative average and demonstrated financial need.
Amount: 20 awards of $5,000

University of Guelph Retiree Association Degree Scholarship [I0569]

The University of Guelph Retiree Association established this $1,500 scholarship in 2007 to acknowledge in-course student achievement. The student having the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last two semesters of full-time studies will be chosen. Apply by May 15th to Student Financial Services with a letter indicating name of and relationship to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.

Donor(s): University of Guelph Retirees Association (U.G.R.A.)
Qualification(s): Students with a minimum 75% cumulative average registered in a degree program who are related to a retiree of the University of Guelph as child, grand child or great grand child.
Amount: 1 award of $1,500
<table>
<thead>
<tr>
<th>Scholarship/Merit Award</th>
<th>Amount</th>
<th>Qualification(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walter and Marion MacDougald Scholarship</td>
<td>1 award of $750</td>
<td>Students demonstrating financial need with a minimum of 10.0 credits and less than 15.0 credits and who are in the following programs/majors/minors: BASc, BSc(Agr), BSc(Env), BSc(Food Science, Animal Biology, Nutrition, or Forest Science), or D.V.M., having a minimum cumulative average of 70%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>William &amp; Nona Heaslip Scholarship</td>
<td>2 awards of $15,000</td>
<td>Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time (minimum 80% of a full course load) study. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
</tr>
<tr>
<td>Archie and Isabelle (Cook) Rintoul O.A.C. Bursary</td>
<td>1 award of $500</td>
<td>Students registered in the department of Environmental Biology in the B.Sc., B.Sc.(Agr.) or the B.Sc.(Env.) degree programs who have completed a minimum of 10.0 credits and who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Bette Stephenson Accessibility Bursary</td>
<td>3 awards to a maximum of $1,500</td>
<td>Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.</td>
</tr>
<tr>
<td>Birks Family Foundation Bursary</td>
<td>1 award of $1,000</td>
<td>Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures.</td>
</tr>
<tr>
<td>Brinson Partners Inc. Bursaries</td>
<td>2 awards of $1,500</td>
<td>Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Burnbrae Farms Bursaries</td>
<td>2 awards of $1,500</td>
<td>Students registered in any program with demonstrated financial need. Preference will be given to students enrolled in a program involved in food supply or utilization, farmland conservation or woodlot management. Preference will be given to students enrolled in a program involved in food supply or utilization, farmland conservation or woodlot management. ACCESS AWARD.</td>
</tr>
<tr>
<td>Class of ’72: 25th Reunion Bursaries</td>
<td>3 awards of $1,000</td>
<td>Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
</tr>
<tr>
<td>Class of O.A.C. ’33 Bursaries</td>
<td>3 awards of $500</td>
<td>O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Class of O.A.C. ’36 Bursaries</td>
<td>1 award of $900</td>
<td>An O.A.C. degree student enrolled in any degree program who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
</tbody>
</table>
Credit Valley Conservation Authority Foundation Bursary [I3007]

Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Credit Valley Conservation Authority Foundation

Qualification(s): Full-time student registered in B.A. Geography, B.Sc. Geographic Information Systems and Environmental Analysis, B.Sc. Engineering (Water Resource Engineering), B.Sc. (Agro) Management or B.Sc.(Env.) Geography majors with demonstrated financial need. Preference will be given to a student who resides in a member municipality of the Credit Valley Authority Foundation.

Amount: 1 award of $500

David R. Leach Memorial Bursary [I3534]

Provided in memory of David R. Leach by his family, with the assistance of the Ontario government's OSOTF program. David entered O.A.C. in 1969 as a member of O.A.C. 73 and graduated with a B.Sc. in Agriculture in 1974. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services and a letter from CSD confirming physical disability by October 7. ACCESS AWARD

Donor(s): Mrs Deborah Leach-Sartor with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): O.A.C. undergraduate degree or diploma student who is physically disabled as determined by the Centre for students with Disabilities, has satisfactory academic standing and who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $750

Donal P. Watson Bursaries in Horticultural Science [I4501]

Established by the estate of Donald P. Watson, O.A.C. 34, with the assistance of the Ontario government's OSOTF program. Preference will be given to students in B.L.A and the CHATS major in the B.Sc(Agr) degree program. Apply to Student Financial Services by October 7 and include a completed Financial Need Assessment Form, Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

Donor(s): The estate of Dr. Donald P. Watson with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students registered in B.L.A program, the B.Sc(Env) program, the Agriculture, CHATS, Organic Agriculture majors of the B.Sc(Agr) program, or the Plant Science major of the B.Sc program who have completed a minimum of 10.0 credits and who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 3 awards of $2,000

Dr. J. L. Tennant Bursaries [I3064]

Established by the estate of Dr. J. L. Tennant, O.A.C. B.S.A 1913. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): The Estate of Dr. J. L. Tennant

Qualification(s): Students registered in the Agricultural Economics major offered by the Department of FARE who have completed a minimum of 12.0 credits and have demonstrated financial need.

Amount: 2 awards of $1,500

Egg Farmers Ontario Bursaries [I3507]

Provided by the Ontario Egg Producers’ Marketing Board and the O.A.C. Alumni Foundation with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. To be considered for this award you must indicate it on your N.A.F. and include a statement outlining your interest in the poultry industry. ACCESS AWARD

Donor(s): Egg Farmers Ontario with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students with demonstrated financial need who have completed semester 2 and are enrolled in the B. Sc.(Agr.) or B.Com.(Agricultural Business) programs and who have a 60% minimum cumulative average. Preference will be given to students who have demonstrated an interest in the poultry industry. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 4 awards of $1,000

Elizabeth Burton Bursaries [I3503]

Mrs. Elizabeth Burton, with the assistance of the Ontario government's OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: Several awards of varying amounts

Grant Misener Bursaries [I3025]

Dr. Andrew Grant Misener, an alumnus of the University of Guelph, has provided this endowment fund. These bursaries provide financial assistance to students with established need and are distributed at the discretion of the University Bursary Committee. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Dr. Andrew Grant Misener

Qualification(s): Students in the B.Sc.(Agr.) program.

Amount: Several varies

Gryphon Investment Council Bursaries [I3513]

Established by Gryphon Investment Council, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,500

Guelph Compassionate Health and Dental Bursary [I3061]

This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.

Donor(s): Student Health and Dental Plan Reserve

Qualification(s): Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress.

Amount: Several varies to a maximum $1,500

Guelph Student Assistance ACCESS Bursaries [I3556]

These bursaries have been established and approved by undergraduate students through student referendums with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: Several awards of varying amounts up to $1,000
Guelph Student Assistance Program [I3056]
These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): Undergraduate Students
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need.
Amount: Several awards of varying amounts up to $1,000

Gwen Karr Memorial Bursary [I3101]
Mr. T.K.C. Karr, O.A.C. ’32, has provided an endowment fund to assist students in a degree or diploma program of the Ontario Agricultural College. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Mr. T.K.C. Karr, O.A.C. ’32
Qualification(s): O.A.C. students with demonstrated financial need.
Amount: Several varies

Helen Mahon Memorial Bursary [I3063]
Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.

Donor(s): Family and Friends of Helen Mahon
Qualification(s): Students registered in any program who come from a family where one parent is deceased.
Amount: 1 award of $500

Howard and Myrtle Rogers Bursaries [I3537]
Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 10 up to $2,000

International Emergency Medical Aid Assistance [I3059]
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.

Donor(s): University of Guelph
Qualification(s): Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.
Amount: Several awards of varying amounts

International Student Bursaries [I3099]
Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.

Donor(s): Mrs. Norma L. Valeriote
Qualification(s): Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.
Amount: Several of varying amounts

Irvine and Grace Black Memorial Bursary [I3051]
Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women's Institute and the Ferguson Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women's Institute by October 7.

Donor(s): Family and friends of Irvine and Grace Black
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women's Institute.
Amount: 1 award of $500

Leroux Bursaries [I3535]
Established by Mr. Hector Leroux, O.A.C.’44, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Mr. J.H. Leroux with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. degree students in the B.Sc.(Agr.), B.Sc., B.Comm. or B.Sc.(Env.) programs with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 4 awards of $1,000

Mary I. Whitelock Bursaries [I3524]
Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government’s OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 13 awards of $2,000

Masterfeeds Bursaries [I3514]
Established by Masterfeeds and the O.A.C. Alumni Foundation, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Masterfeeds with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. students in B.Sc.(Agr.) Animal Science or B.Sc. Animal Biology majors who have demonstrated financial need and, at the time of application, have a cumulative average of 60%. Students may receive one or two bursaries annually. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,250

Murray McEwen OAC Safe Water Bursary [I3573]
Selection will be based on the highest financial need. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form and a letter indicating which of the listed courses have been completed. ACCESS AWARD.

Donor(s): Murray McEwen with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any major offered by OAC who have completed any two of the following courses: ENVS*3150 (Aquatic Systems), ENVS*3190 (Environmental Water Chemistry), ENVS*3290 (Waterborne Disease Ecology), ENVS*3800 (Soil and Water Conservation) and ENVS*3900 (Groundwater) with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $1,000

Last Revision: Oct. 19, 2012
The Ontario Agri Business Association Degree Bursaries [13502]

The Ontario Agri Business Association, with the aid of the Ontario government's OSOTF program, has made available four bursaries of $750. Apply by October 7 to Student Financial Services with a letter, stating your involvement and a completed Financial Need Assessment Form (N.A.F.). Students will be selected based on demonstrated financial need and on involvement in community/extra-curricular activities. ACCESS AWARD.

Donor(s): Ontario Agri Business Association with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students who have completed a minimum of 10.0 credits in the B.S.C.(Agr.) program in either an unrelated major or in Food Agriculture and Resource Economics, Animal Science, Agronomy or in the B.Comm. program in Agricultural Business. Students must have a minimum cumulative average of 60%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 4 awards of $750

Ontario Cattlemen's Association Degree Bursary [13526]

Provided by the Ontario Cattlemen's Association and the O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund. Apply by letter with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Ontario Cattlemen's Association with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students with a minimum cumulative average of 60%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 4 awards of $300

Ontario Co-operatives R.P. Forshaw Bursary [13013]

The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.

Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw

Qualification(s): Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.

Amount: 1 award of $400

Ontario Federation of Agriculture Bursaries [13520]

Provided by the Ontario Federation of Agriculture and the O.A.C. Alumni Foundation with the assistance of the Ontario government's OSOTF program. Apply with a letter indicating 4H and/or rural community involvement and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. To be considered for this award you must indicate it on our N.A.F. and include a statement outlining your extracurricular activities.

Donor(s): Ontario Federation of Agriculture with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): O.A.C. students with demonstrated financial need enrolled in the B.Sc.(Agr.), B.Comm., B.Sc. or B.Sc.(Env.) programs. Preference will be given to students from farm families who have participated in 4H and/or rural community activities. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 12 awards of $500

Ontario Grape Growers Bursary [13033]

Offered by the Ontario Grape Growers Action Committee. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): The Ontario Grape Growers Action Committee

Qualification(s): Students with good academic standing in semesters 3 to 6 of a degree program or semesters 3 to 4 of a diploma program administered by O.A.C., and demonstrated need of financial assistance.

Amount: Several of various amounts
<table>
<thead>
<tr>
<th>Award Name</th>
<th>Qualification(s)</th>
<th>Amount</th>
<th>Donor(s)</th>
<th>Access Award</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ontario Pork (Degree) Bursary [I3049]</strong></td>
<td>B.Sc.(Agr.) and B.Comm., Agricultural Business major, students with demonstrated financial need who have completed semester 4 and who have satisfactory academic standing and an interest in pork production.</td>
<td>1 award of $500</td>
<td>Ontario Pork Producers' Marketing Board</td>
<td></td>
</tr>
</tbody>
</table>

| **Robert August Humanitarian Bursary [I3058]** | | Several awards of varying amounts | Office of Registrarial Services | 

| **Scotiabank Bursaries [I3532]** | Students registered in a degree program. | Several awards of varying amounts | Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund | 

| **Shirley Endean Bursaries [I3570]** | | | Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support program | 

| **T.K. Warley Bursaries [I3510]** | | | O.A.C. Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund | 

| **University of Guelph Access Bursaries [I3522]** | | | University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund | 

| **University of Guelph Alumni Association Access Bursaries [I3523]** | | | University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund | 

| **University of Guelph Child Care Bursaries [I3053]** | | | University of Guelph with a minimum registration of 1.50 course credits. | 

| **University of Guelph International Bursary [I3048]** | | | University of Guelph | 

| **University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]** | | | University of Guelph | 

| **University of Guelph Undergraduate In-Course Bursaries (NON OSPATR) [I3047]** | | | University of Guelph |
University Police Bursaries [L3019]
The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP) must be considered. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** The University Police

**Qualification(s):** Full-time undergraduate with demonstrated financial need.

**Amount:** Several of various amounts

University Student Assistance Program [L3057]
These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph

**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).

**Amount:** Several awards of various amounts to a maximum of $1,000

### In-course Travel Grants

**A.W. Archibald Memorial Travel Grant [T4541]**
Mr. A.W. Archibald, O.A.C. ’33 with the assistance of the Ontario government's OSOTF program, provide these travel grants to students who plan to travel for a semester abroad or to attend other schools outside of Canada for workshops or other academic related purposes. Apply to Student Financial Services with a letter outlining proposed travel plans and academic purpose accompanied by a letter of support from a faculty member or student advisor, and a Need-Based Travel grant application by October 7. ACCESS AWARD.

**Donor(s):** A.W. Archibald, O.A.C. ’33 with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Undergraduate students in any O.A.C. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards up to $1000

**Aeroplan International Travel Grant [T0604]**
Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a “Travel Grant Need-based Application”. Preference will be given to students participating in the semester abroad or academic exchanges. Award is subject to the availability of Aeroplan miles and may not be available every year.

**Donor(s):** Aeroplan

**Qualification(s):** Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.

**Amount:** 1 or more awards of a plane ticket

**Arthur D. Latornell Undergraduate Travel Grants [T0058]**
An endowment fund established in memory of Arthur D. Latornell, O.A.C. ’50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.

**Donor(s):** The Estate of Arthur D. Latornell

**Qualification(s):** Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.

**Amount:** several up to a maximum of $1000

### Canada’s Outdoor Farm Show Travel Grants [T3536]
Established by Canada’s Outdoor Farm Show and the O.A.C. Alumni Foundation, with the assistance of the Ontario government’s OSOTF program. Apply to Student Financial Services with a completed Need-Based Travel Grant application by February 1. The letter should outline the reasons for participating in the meeting, competition, etc., and include a brief statement of learning objectives and appropriate involvement in student activities. Upon successful return from travel opportunity, student(s) should be willing to present report to classmates and/or faculty. ACCESS AWARD

**Donor(s):** Canada’s Outdoor Farm Show with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Undergraduate students in O.A.C. who have completed semester 4 in Agricultural Science or Agricultural Business or who have completed semester 2 of the Diploma in Agriculture program (Alfred, Guelph, Kemptville, Ridgetown).

**Amount:** 1 award of $1,000

### Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]
The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government’s OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.

**Donor(s):** Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Undergraduate degree students in either the second or third year of study. Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a “Letter of Permission” prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** A number of awards to a maximum of $7,500

### Charles and Betty Webster International Study Scholarships [T0575]
Established by Elizabeth Comper in memory of her parents, Charles Webster, O.A.C. ’36 and Betty Webster. Submit a letter of no more than two pages outlining the intended international exchange or study abroad program, reasons for choosing the program and the anticipated benefits of participation in the program. Selection will be based on the international study program benefit to individual applicant and leadership potential based on information submitted in the application. Apply by May 15 to the O.A.C. Awards with a letter including a brief summary of extracurricular and student related activities and a summary of the travel program. Letters of recommendation will also be considered as part of the application package.

**Donor(s):** Mrs. Elizabeth Comper

**Qualification(s):** Students enrolled in B.Sc.(Agr) with a minimum 75% cumulative average who intend to participate in an international exchange program or semester abroad.

**Amount:** 1 award of $350

### Class of OAC ’59 Experiential Learning Travel Grant [T0702]
The Class of OAC ’59, in recognition of their 50th anniversary since graduation, has established this award to assist students participating in meetings, conferences, seminars, trade shows, course field trips, semesters abroad, etc. Selection will be based on relevance of intended travel and benefits to program of study. Apply by April 1st to the OAC Awards Office with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs and expected benefits. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be beneficial.

**Donor(s):** OAC ’59

**Qualification(s):** Students registered in any undergraduate degree program of OAC who have completed a minimum 8.0 credits or students registered in the Diploma in Agriculture or Horticulture programs at Alfred, Kemptville or Ridgetown campuses or Turfgrass Diploma at the Guelph campus who have completed 6.0 credits are eligible. Students must have a 70% cumulative average and must have travel related to their studies to be considered.

**Amount:** Several awards of up to $15,000
### D & G Hart Travel Grant [T0601]

| Donor(s): | Family of Douglas and George Hart |
| Qualification(s): | Students currently enrolled in any O.A.C program with a minimum 70% cumulative average who intend to participate in travel related to course study. |
| Amount: | 1 award of up to awards of $750 |

### Frank E. Wolff International Scholarships [T0313]

| Donor(s): | The late Frank E. Wolff was a faculty member and graduate of O.A.C. He was active in the O.A.C. Alumni Foundation and in the establishment of the O.A.C. Alumni Foundation. This scholarship fund was established in memory of Frank E. Wolff, Mr. A.O. Wolff and family. As a faculty member, he studied the techniques of artificial insemination of cattle in Denmark and upon his return in 1939, employed these techniques in the O.A.C. herd. To be considered for this award, students must apply for the J. Ross Cavers International Scholarship by May 15. |
| Qualification(s): | Students who have an interest in International Agriculture. The scholarship will be awarded to students with a minimum of a 70% standing over the first 4 semester levels of the B.Sc. (Agr.) program. Students must register for the International Field Study course (AGR*2500) in the year the award is received. |
| Amount: | Up to 5 awards of $600 |

### Ginty Jocius Journey of Growth Travel Grant [T0658]

| Donor(s): | Ginty Jocius and Family |
| Qualification(s): | Students registered in the B.Sc.(Agr.) program or the Agricultural Business major of the B.Comm program who have completed a minimum of 8.0 credits and are travelling for academic purposes such as participating in meetings, conferences, seminars, trade shows, and/or course field trips. |
| Amount: | 1 award of $1,200 |

### H.C. Mason Travel Scholarships [T0598]

| Donor(s): | Mr. F.W. Bray |
| Qualification(s): | Student who are currently registered in an Ontario Agricultural College undergraduate program with a minimum of 70% cumulative average who intend to participate in travel related to course study. |
| Amount: | various awards up to $1,500 |

### J. Ross Cavers Study Abroad Scholarship [T0051]

| Donor(s): | Class of O.A.C. ’53 |
| Qualification(s): | Undergraduate student in O.A.C. planning to participate in a semester abroad program with a minimum 75% cumulative average. Preference will be given to a candidate who has exhibited qualities of leadership. |
| Amount: | 2 awards of $2,000 |

### J.D. Cunningham Travel Grant [T0605]

| Donor(s): | Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by May 15 to the O.A.C. Awards Office with a letter of no more than two pages outlining the intended study program, conference, or other type of learning opportunity. Include the reason for choosing the program and describe the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. Upon return from the travel opportunity, the student must be willing to present a report to classmates and/or faculty and/or the Ontario Food Protection Association. |
| Qualification(s): | Ontario Food Protection Association |
| Amount: | 1 award of $2,000 |

### Kenneth W. Knox Undergraduate Leadership Travel Grant [T4403]

| Donor(s): | Established to honour and recognize Kenneth Knox, Kemptville ’67, OAC ’72, for his passionate and innovative career. Selection will be based on relevance of intended travel and benefits to program of study, demonstrated leadership contributions and financial need. Apply by October 7 to Student Financial Services with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs, expected benefits, demonstrated leadership as evidenced by participation in extracurricular activities or volunteer services, along with a completed University of Guelph Financial Need Assessment Form. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be considered. ACCESS AWARD |
| Qualification(s): | Students registered in any program offered by O.A.C. who have demonstrated leadership contributions, have completed a minimum of 10.0 credits with a minimum 70% cumulative average and plan to participate in an experiential learning opportunity related to their field of study, such as, semester abroad, exchange program, etc. and have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 1 award of $2,000 |

### Kincardine Shippers Association Travel Grant [T0676]

| Donor(s): | Established by the members of the Kincardine Shippers Association to assist students to program of study, demonstrated leadership contributions and financial need. Apply by February 1st to the OAC Awards Office with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs, expected benefits, demonstrated leadership as evidenced by participation in extracurricular activities or volunteer services, along with a completed University of Guelph Financial Need Assessment Form. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be considered. ACCESS AWARD |
| Qualification(s): | Friends and Family of Kenneth Knox with matching funding through the Ontario Trust for Student Support program |
| Amount: | 1 award of $2,000 |

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Last Revision: Oct. 19, 2012
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>O.A.C. '54 International Study Scholarship</td>
<td>1 award of $1,450</td>
<td>Class of O.A.C. '54</td>
<td>Currently registered students in O.A.C. who are Canadian citizens or permanent residents with a minimum 75% cumulative average who intend to participate in an exchange program, semester abroad, or field trip course.</td>
</tr>
<tr>
<td>ACCESS AWARD</td>
<td>1 award of $800</td>
<td>Shirley Page</td>
<td>Students in Animal Biology or in Agricultural Science with an interest in animal production who have completed 12.50 credits with satisfactory academic standing and who are planning to attend a student conference or activity related to animal production.</td>
</tr>
<tr>
<td>Massey Fund Travel Scholarships</td>
<td>6 awards of up to $2,000 each</td>
<td>O.A.C. '54 International Study Scholarship</td>
<td>Students pursuing studies in Food Agriculture and Resource Economics and who are studying outside of Canada for one or more semesters.</td>
</tr>
<tr>
<td>Michael Chepesuik International Travel Grant</td>
<td>1 award of $1,000</td>
<td>Mr. Michael W. Chepesuik</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
</tr>
<tr>
<td>Lorne Page Memorial Travel Grants</td>
<td>1 award of $350</td>
<td>The Estate of Richard Hungerford</td>
<td>Students pursuing studies in Animal Biology or in Agricultural Science with an interest in animal production who have completed 12.50 credits with satisfactory academic standing and who are planning to attend a student conference or activity related to animal production.</td>
</tr>
<tr>
<td>University of Guelph Travel Scholarships</td>
<td>Several awards of various amounts</td>
<td>University of Guelph</td>
<td>Students who are currently registered in an Ontario Agricultural College undergraduate degree program and wish to travel to expand their educational opportunities.</td>
</tr>
<tr>
<td>Richard and Sophia Hungerford Undergraduate Travel Scholarships</td>
<td>1 award of $350</td>
<td>The Estate of Richard Hungerford</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
</tr>
<tr>
<td>O.A.C. 05 Excellence Travel Grant</td>
<td>Several awards of various amounts</td>
<td>O.A.C. '54 International Study Scholarship</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
</tr>
<tr>
<td>O.A.C. '47 Travel Bursaries</td>
<td>1 award of $300</td>
<td>Mr. Roderick W. Long</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
</tr>
<tr>
<td>O.A.C. '54 International Study Scholarship</td>
<td>Several awards of various amounts</td>
<td>University of Guelph</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OTSS award.</td>
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<tr>
<td><strong>Varley and Lyon Exchange Scholarships [T0298]</strong></td>
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<tr>
<td>Miss Bertha Manent of New York City has established five or more Mrs. Lillie-Jane Lyon Varley and Clarence D. Lyon Exchange scholarships. Apply to the O.A.C. Awards office by May 15 and include a letter from the Dean or Director approving the proposed program of study.</td>
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<tr>
<td><strong>Donor(s):</strong> Miss Bertha Manent</td>
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<tr>
<td><strong>Qualification(s):</strong> O.A.C. students who are pursuing a course of study for one or two semesters at another college or faculty of agriculture in Canada or in another country. Such course of study must lead to the degree of B.Sc.(Agr.), B.Comm. in Agricultural Business or the Diploma in Agriculture at the University of Guelph.</td>
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<tr>
<td><strong>Amount:</strong> 3 awards of $750</td>
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</tbody>
</table>
Bachelor of Science in Environmental Sciences

Please refer to the General Statement on Awards for:

- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

Entrance Scholarships

1961-1964 Redmen Football Scholarships [E0770]
Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipients(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.
Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship [E0769]
Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

AI Singleton Hockey Scholarships [E0687]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Al Singleton Hockey Scholarships [E0687]
The recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Allen Keefe
Qualification(s): Entering student-athlete who is a member of the Varsity Track and Field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

Amos & William Lowe Memorial Scholarship [E0158]
Endowed by the late William B. Lowe of Port Francis, Ontario. Preference will be given first to eligible students from the district of Rainy River, then from the district of Kenora or Thunder Bay, and finally from the remaining districts of Northern Ontario. Application is not required.

Donor(s): William B. Lowe and Amos Edgar Lowe
Qualification(s): Student entering any of the undergraduate degree programs of the Ontario Agricultural College.
Amount: 1 award of $1,250

Angelo and Frank Agro Undergraduate Scholarship [E0520]
These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership role(s) in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

Donor(s): The Frank Agro Estate
Qualification(s): Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4-H projects.
Amount: 8 awards of $7,000 (payable over 4 years of study)

B.Sc.(Env.) Alfred McInroy Cuddy Memorial Scholarship [E0670]
Established by the Estate of Alfred McInroy (Mac) Cuddy, BSA ’42 and awarded to the two students who demonstrate high academic achievement and involvement in Environmental Sciences related activities. Apply to Student Financial Services by April 15 with a one page letter outlining career aspirations, extracurricular and community involvement in environmental science related activities.

Donor(s): The Estate of Alfred McInroy Cuddy
Qualification(s): Students entering the first semester of the Bachelor of Science in Environmental Sciences with a minimum of 80.0% admission average.
Amount: 2 awards of $2,000

Barry Lee Scholarship for Agricultural Excellence [E0797]
Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

Donor(s): The Regional Municipality of Halton
Qualification(s): Students entering any undergraduate program offered by OAC.
Amount: 1 award of $1,000

Board of Governors’ Scholarships [E0317]
The scholarship will be paid in eight equal installments with the first and second payments payable shortly after registration in semesters 1 and 2. The 3rd to 8th payments are contingent upon obtaining a minimum average of 80% over the previous two semesters of full-time study. Students who fail to qualify for a payment may re-qualify by subsequently obtaining an 80% or better average over the previous two semesters of full-time study. Application is not required.

Donor(s): Board of Governors
Qualification(s): Academically outstanding students entering semester 1 with the highest admission averages of the entering cohort.
Amount: 25 award of $8,000 (payable over 4 years of study)

Bob & Joyce Brooks Football Scholarships [E0691]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Mrs. Joyce Brooks
Qualification(s): Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: Numerous awards ranging in value from $750 to $3,500

Coach Rudy Florio Football Scholarship [E0737]
Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. Rudy Florio
Qualification(s): Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500
IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences

December 6th Memorial Scholarship [E0005]
This scholarship, established by the Faculty Association, is awarded in memory of the fourteen women murdered in December 1989 at Ecole Polytechnique and is intended to attract women to a profession that is largely comprised of men. The recipient will be selected on the basis of academic performance. For continued eligibility beyond semester 1, the student must maintain a minimum of 70% cumulative average. Demonstrated financial need may also be considered. Application is not required.

Donor(s): University of Guelph Faculty Association
Qualification(s): Female student who is a Canadian Citizen or Permanent resident of Canada enrolled in the College of Physical and Engineering Science.
Amount: 1 award of $2,250 ($750 in each of semesters 1, 3 and 5).

Dr. C. John Small Commonwealth Scholarship [E0611]
Established in honour of Dr. C. John Small, OAC BSA ‘42, Hon D. Law ’75, and his lifelong dedication to foreign service. Selection will be based on the assessment of: (a) a one-page submission describing the significance for the student visiting Guelph to the program of study at the partner exchange University, (b) two faculty references of no more than one-page each, and (c) consistent high performance in course work completed, as documented by a transcript of program grades to date. Apply to the Centre for International Programs by May 1 for visiting during the subsequent Fall or Winter semesters with the above mentioned documents.

Donor(s): Mrs. Jean K. Small
Qualification(s): Full-time visiting exchange students registered for at least one semester from a Commonwealth developing country who are pursuing studies or conducting research in the area of agriculture and rural development.
Amount: 1 award of $1,500

Dr. Jack Britney Scholarship [E0034]
Established in memory of Dr. Jack Britney, a graduate of ’57A and O.A.C. ’60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.

Donor(s): Friends and Associates
Qualification(s): Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph.
Amount: 1 award of $1,000

Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]
Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

Donor(s): Various Donors
Qualification(s): Entering student-athlete who is a member of the Varsity Cross / Country or Track and Field Team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,350

Earl B. MacNaughton Entrance Scholarships [E0172]
Established by friends, faculty, staff, and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Emphasis during selection will be given to academic achievement in high school science and mathematics. Application is not required.

Donor(s): Earl B. MacNaughton
Qualification(s): Students with high academic standing, entering an honours program in the College of Physical and Engineering Science.
Amount: 4 awards of $1,000

Elaine Scott-Thomas Track and Field Scholarship [E0706]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Dave Scott-Thomas CBS BSc ’88
Qualification(s): Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.
Amount: 1 award of $1,500

Embry Family Scholarship [E0736]
Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. John Embry
Qualification(s): Entering student-athlete who is a member of a varsity team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [E0627]
Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Ernest Kendall
Qualification(s): Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.
Amount: 2 awards of $1,350

Ernie Kendall Science Entrance Scholarship [E0668]
Established by Ernest Kendall, O.A.C. B.S.A. 1932 and awarded to the student entering a science program with the highest admission average. Preference will be given to students that graduated from Elmira District School. This award is not tenable with the President's Scholarships, the Lincoln Alexander Scholarships or the Board of Governors Scholarships. Application is not required.

Donor(s): Ernest W. Kendall
Qualification(s): Students entering any sciences (B.Sc., B.Sc.(Agr.), B.Sc.(Env.), B.Sc.(Tech), B.A.Sc., B.A.S., B.B.R.M., B.Eng.) degree program with a minimum 80.0% admission average.
Amount: 1 award of $2,000

Football Endowment Fund (FEF) Scholarship [E0644]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Various University of Guelph donors
Qualification(s): Entering student-athlete who is a member of the Men's football team and who has achieved a minimum 80% admission average.
Amount: various awards of $750 to $3,500

George A. Gray O.A.C. ’51 Varsity Scholarships [E0487]
Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

Donor(s): Mrs. George A. Gray
Qualification(s): Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
Amount: 2 awards of $1,250

George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): George Ames
Qualification(s): Entering student-athlete who is a member of the Varsity Cross Country team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Gerd and Christel Baldauf Men's Basketball Scholarship [E0639]
Established by Christian Baldauf, BSc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. Christian Baldauf
Qualification(s): Student-athlete entering the BSc program who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500
Gordon McNally Memorial Scholarship [E0203]
In memory of Gordon McNally, Professor of Zoology in the Ontario Agricultural College (1934-1971) and College of Biological Science (1971-1979), who had a great interest in extracurricular activities. The recipient will be selected on the basis of academic performance and demonstration of outstanding contributions to extracurricular activities and/or community services. Apply to Student Financial Services by April 15 with a letter demonstrating contributions to extracurricular activities.
**Donor(s):** Jean and Peter Gower
**Qualification(s):** Students entering any undergraduate degree program offered by the College of Biological Sciences.
**Amount:** 1 award of $500

Gordon W. Innes Scholarship [E0140]
Application is not required.
**Donor(s):** Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.
**Qualification(s):** Student entering any degree program from Oxford County with the highest admission average.
**Amount:** 1 award of $1,400

Gryphon Athletic Scholarships [E0631]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
**Donor(s):** University of Guelph
**Qualification(s):** Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.
**Amount:** various awards of $750 to $3,500

Hardy International Student Scholarship [E0659]
Selection is based on the assessment of the student's admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required.
**Donor(s):** Mrs. Marion Hardy
**Qualification(s):** Full-time international students (defined as paying the international student tuition and fees) entering any degree program.
**Amount:** 1 award of $3,000

International Student Entrance Scholarships [E0408]
In support of the University's strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is not required.
**Donor(s):** University of Guelph
**Qualification(s):** Students on a "student visa" entering an undergraduate degree program at the University of Guelph with a record of high academic achievement and extracurricular involvement, and studying full-time. This award is offered for the first year of study.
**Amount:** Several awards ranging in value from $500 - $6,000

J.D. MacLachlan Scholarship [E0170]
Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.
**Donor(s):** The J.D. MacLachlan Trust
**Qualification(s):** Students entering any degree program at the University of Guelph.
**Amount:** 1 award of $1,500

Jack and Lillian MacDonald Scholarship [E0379]
Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnic Institute) who has the highest cumulative average at the University.
**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald
**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).
**Amount:** 1 award of $900

James MacMillan Memorial Scholarship [10494]
Established in memory of James MacMillan, his great uncle, by Austin Conway of Toronto. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter indicating the program at Kempville in which the applicant graduated from to Student Financial Services by October 7.
**Donor(s):** Austin Conway
**Qualification(s):** Kempville college graduate with a minimum 75% cumulative average at convocation who registers in the O.A.C. degree program in Agriculture or in Agriculture and Business.
**Amount:** 1 award of $2,500

Kelly Bertrand Cross Country Scholarship [E0684]
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.
**Donor(s):** Kelly Bertrand
**Qualification(s):** Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.
**Amount:** 1 award of $2,000

Larry Pearson Men’s Volleyball Athletic Scholarships [E0618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.
**Donor(s):** Larry Pearson
**Qualification(s):** Entering student-athlete who is a member of the men's varsity volleyball team and who has achieved a minimum 80% admission average.
**Amount:** several awards up to $3,500

Latifpoor-Keparoutis Family Varsity SwimTeam Scholarship [E0732]
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.
**Donor(s):** Maryam Latifpoor-Keparoutis
**Qualification(s):** Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.
**Amount:** 1 award of $1,200

Lincoln Alexander Scholarships [E0689]
Established in 2001 in honour of Lincoln Alexander, Chancellor Emeritus of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This award cannot be held with the President’s Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.
**Donor(s):** Many Donors
**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and communities. In addition, students must be: Aboriginal; or a person with a disability; or a member of a racial minority.
**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus $6,000 stipend for summer research assistantship)

Lloyd Dorr Memorial Hockey Scholarship [E0708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.
**Donor(s):** Family and Friends of the late Lloyd Dorr
**Qualification(s):** Entering student-athlete who is a member of the men’s varsity hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
**Amount:** 1 award of $1,000
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<th>Scholarship</th>
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| **McArthur-Humphries Scholarship [E0183]** | An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county. These scholarships are awarded to students with the highest admission averages. Application is not required.  
**Donor(s):** Wilhelmina McArthur-Humphries Trust Fund  
**Qualification(s):** Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.  
**Amount:** 12 awards of $1,000 |
| **Men’s Basketball Scholarships [E0638]** | Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.  
**Donor(s):** Anonymous (Alumnus)  
**Qualification(s):** Entering student-athlete who is a member of the varsity Men’s Basketball team and who has achieved a minimum 80% admission average.  
**Amount:** 4 awards of $2,500 |
| **Men’s Soccer Alumni Scholarship [E0771]** | Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.  
**Donor(s):** Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)  
**Qualification(s):** Entering student-athlete who is a member of the Gryphon men’s soccer team with a minimum 80% admission average.  
**Amount:** several awards ranging in value from $1,000 to $3,500 |
| **Moulton-Hutchinson Family Track and Field Scholarship [E0705]** | The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.  
**Donor(s):** The Moulton and Hutchinson Families  
**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $3,500 |
| **Ontario Institute of Agrologists’ Mike Jenkinson Memorial Scholarship [E0738]** | Established in recognition of demonstrated academic excellence, leadership ability and participation in the President's and Chancellor's Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President's or Chancellor's Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.  
**Donor(s):** University of Guelph  
**Qualification(s):** Students entering any OAC degree program with a minimum 80% admission average who have taken a leadership role in activities that demonstrate an interest in international relations and development and who indicate an ongoing desire to gain a broader subject knowledge through course work and/or engagement in the discipline and demonstrate the potential to become leaders in society.  
**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship) |
| **Pamela Wallin Chancellor’s Scholarships [E0688]** | Established in 2009 in honour of Pamela Wallin, Chancellor of the University of Guelph and considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.  
**Donor(s):** University of Guelph  
**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have taken a leadership role in activities that demonstrate an interest in international relations and development and who indicate an ongoing desire to gain a broader subject knowledge through course work and/or engagement in the discipline and demonstrate the potential to become leaders in society.  
**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship) |
| **President’s & Chancellor’s Finalists Scholarship [E0651]** | Established in recognition of demonstrated academic excellence, leadership ability and participation in the President's and Chancellor's Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President's or Chancellor's Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.  
**Donor(s):** Provost, and Vice-President Academic of the University of Guelph  
**Qualification(s):** Students entering any degree program who have been interviewed for consideration for a President's or Chancellor's Scholarship.  
**Amount:** several awards of $500 |
President’s Scholarship [E0238]
Established in 1987 in honour of their donors or distinguished members of the University and are considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated leadership ability and potential as evidenced through participation in school and community activities, volunteer service, and a minimum 85.0% admission average. Selection will be made by the University of Guelph. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.
Donor(s): Prof. Burton C. Matthews
Qualification(s): Entering student-athlete who is a member of the varsity men’s basketball team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Rachel Cliff Scholarship [E0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.
Donor(s): Mr. Ronald & Nancy Cliff
Qualification(s): Entering student-athlete who is a member of the Women’s Middle Distance Team and a distance runner who has achieved a minimum 80% admission average.
Amount: 1 award of $1,500

Sprung Family Men’s Basketball Scholarship [E0672]
Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. Application is not required.
Donor(s): Mr. Timothy Sprung
Qualification(s): Entering student-athlete who is a member of the Men’s basketball team and who has achieved a minimum 80% admission average.
Amount: 1 award of $3,500

Ted Morwick Scholarship [E0796]
Established by Alumnus Ted Morwick, BA ’70. The student with the highest admission average will be selected. This award is conditional on maintaining a 80% average in the previous year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify. (i.e. The student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year.) If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opportunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary.
Donor(s): Mr. Edward (Ted) Morwick
Qualification(s): Students entering any degree program in the College of Arts.
Amount: 1 award of $8,000 (payable over four years.)

TSC Stores Scholarship in Memory of Gordon Illes [E0731]
Established in memory of Gordon Illes, a 1974 graduate of Ridgetown. Selection based on the quality of experience and/or leadership in volunteerism within the agriculture industry and the community, including extra-curricular activities and career aspirations. (e.g. 4H, Junior Farmers, agricultural work experience). Preference will be given to current employees of TSC Stores or their children. Apply by April 15th to the OAC Awards Office with a letter outlining career aspirations, extracurricular and community involvement in agri-food related activities and include a letter from TSC Stores management to verify employment if applicable.
Donor(s): TSC Stores L.P. (TSC)
Qualification(s): Students entering any OAC degree program at the Guelph, Ridgetown or Kemptville campuses with a minimum 80% admission average. Numerous awards ranging in value from $1,000 to $3,500

Quinn Memorial Scholarship [E0578]
Established in memory of Ronald J. Quinn (O.A.C. ’35) to an entering O.A.C. international full-time or exchange student. Selection will be based on academic performance, letters of reference and an assessment of the admission application package. Application is not required.
Donor(s): Mrs. Helen Quinn (O.A.C. ’35
Qualification(s): Entering semester one of an O.A.C. program to an international full-time student or to an international exchange student with a preference to those students from developing nations.
Amount: 1 award of $1,500

University of Guelph Entrance Scholarships [E0291]
The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student's financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive this award. Application is not required.
Donor(s): University of Guelph
Qualification(s): All students entering their first year of post-secondary studies for the first time with a minimum 55.0% admission average.
Amount: Several awards of $2,000, Several awards of $3,000
Entrance Scholarships with Financial Need

**Bill Klopp Memorial Scholarship [E0150]**
Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

**Donor(s):** Ross and Mary Lou Klopp

**Qualification(s):** Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.

**Amount:** 1 award of $500

**Devine Family Scholarships [E4542]**
On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government's OTSS program, established these two awards for the purpose of diversifying the ethnicity of the student body of the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out once every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the "Devine Family Scholarship Application". Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President's Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with other entrance awards. ACCESS AWARD.

**Donor(s):** Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability, or who are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $30,000 (payable over 4 years of study)

Interhall Council Entrance Scholarship [E0636]
Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.

**Donor(s):** Interhall Council

**Qualification(s):** Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability.

**Amount:** 3 awards of $1,250

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**University of Guelph Faculty Association Scholarship [E0292]**
Award is payable at $750 per annum in the student's 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required.

**Donor(s):** University of Guelph Faculty Association

**Qualification(s):** Students entering any undergraduate degree program at the University of Guelph from Wellington county.

**Amount:** 1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)

**W. Penri Morris Memorial Scholarship [E0430]**
Established by the family in memory of Penri Morris, who was killed World War II action in 1944 at the age of 21. Penri grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required.

**Donor(s):** Prof. Rosalina Morris

**Qualification(s):** Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.

**Amount:** 1 award of $1,000

**Walter and Halina Slabikowski Scholarship [E0766]**
This scholarship was established in memory of Walter and Halina Slabikowski who sent their first generation Canadian born children to university to enrich their lives and provide them with greater opportunities. The award will be given to the student with the highest admission average. The residence deposit must be received by published deadline date. Submit by email to awards@registrar.uoguelph.ca your full name, student ID number and a statement attesting to your parents' place of birth and non participation in post secondary education by April 15th.

**Donor(s):** Irene Thompson and Slabikowski Family

**Qualification(s):** Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary education by April 15th.

**Amount:** 1 award of $1,000

**Waterloo-Wellington Science & Engineering Fair (WWSEF) Scholarship [E0619]**
Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.

**Donor(s):** University of Guelph

**Qualification(s):** Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.

**Amount:** various awards of $1,000

**William L. McEwen OAC '43 Men's Varsity Hockey Scholarships [E0703]**
The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mrs. Irene McEwen

**Qualification(s):** Entering student-athlete who is a member of the Men's Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

**Amount:** Numerous awards ranging in value from $750 to $3,500

**William P. Weber Football Scholarship [E0634]**
Established by Dr. William P. Weber, OVC '59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. William P. Weber

**Qualification(s):** Entering student-athlete who is a member of the Men's Football team and achieved a minimum 80% admission average.

**Amount:** 1 award of $2,500
IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences

John Embry Family Scholarship [E4549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program
Qualification(s): Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $3,500

Kenneth O. Hammill-Blount Canada Scholarship [E4356]
Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government’s OSOTF program. Selection will be based on demonstrated financial need from the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholars applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who submitted an application for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholars should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) by April 15. ACCESS AWARD.

Donor(s): The Blount Foundation, Inc. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Entering students who have applied for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholars who are interviewed, but not successful in the competition with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $9,600 (payable in 8 payments of $1,200)

Landoni Athletic Scholarship [E4405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Student must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Norman L. Gibbins Microbiology Scholarship [E4392]
Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government’s OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): Family, friends and colleagues of Norman Gibbins with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students entering the Microbiology major in the B.Sc. program with a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,000

P.A.J. Clarke Family Scholarship [E9381]
Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul's father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F.). This award is not tenable with the President's Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

Donor(s): Paul and Aileen Clarke
Qualification(s): Students with a minimum 80% average with a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm.
Amount: 1 award of $12,000 (payable over 4 years)

Robert C. Skipper Scholarship [E0485]
Established by Robert C. Skipper, Diploma in Agriculture 1948 and B.S.A. 1951. Selection will be based on academic standing, participation in extra-curricular activities and involvement in primary production and/or rural community activities. Financial need may also be considered. Apply to Student Financial Services by April 15 with a one-page summary outlining achievements and by completing the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.).

Donor(s): Mr. Robert C. Skipper
Qualification(s): Students entering a degree program in O.A.C. that have graduated with a Diploma in Agriculture or Horticulture from the University of Guelph’s Kemptville or Ridgetown campuses.
Amount: 1 award of $1,000

Rol-Land Farms Scholarships [E4519]
Established by Rol-Land Farms, with the assistance of the Ontario government’s OSOTF program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): Rol-Land Farms with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students entering a degree program with demonstrated financial need and a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 13 awards of $2,000

Spitzig Entrance Scholarship in Economics [E4543]
A graduate (1986) of the B.A. Economics program has established this scholarship with the assistance of the Ontario government’s OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

Donor(s): Anonymous with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $4,500

W. F. Mitchell Athletic Scholarship [E4550]
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): The Mitchell Family with matching funding through the Ontario Trust for Student Support program
Qualification(s): An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,350

2012-2013 Undergraduate Calendar
Last Revision: Oct. 19, 2012
Entrance Bursaries

**Elizabeth Maud Hunter (Shier) Bursary [E3575]**

This award was created to assist first year students in obtaining a post secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards, ACCESS AWARD.

**Donor(s):** The Estate of the Late William Henry “Harry” Hunter with matching Harvey Graham, O.A.C. '39

**Qualification(s):** Students entering any degree program at the University of Guelph with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 3 awards of up to $4,500

**First Year Student Residence Bursary [E3066]**

These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the on-line Financial Need Assessment Form for Entrance Awards by April 15:

**Donor(s):** Student Housing Services

**Qualification(s):** Students entering any degree program with demonstrated financial need.

**Amount:** 5 awards of $500

**Fred Hindle Bursary [E3500]**

Awarded in memory of Fred Hindle, O.A.C./38, a long-time generous supporter of his Alma Mater, who at the time of his death, wanted future students to have the same opportunity for an education as he had received. This bursary is awarded with the assistance of the Ontario government's OSOTF program. This bursary is dependent on continued demonstration of financial need and successful completion of study to advance into the next year. Students should complete the online Financial Need Assessment Form (N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.ACCESS AWARD.

**Donor(s):** W. Roy Hindle and family with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Entering O.A.C. degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statement on Awards).

**Amount:** 1 award of $6,000 (payable over 4 years)

**Harvey Graham Bursary [E3030]**

Provided by Harvey Graham (O.A.C./'39). Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

Deadline to submit the application is April 15.

**Donor(s):** Harvey Graham, O.A.C. '39

**Qualification(s):** Student who has demonstrated financial need with preference given to a student who comes from a working farm. Students graduating from Lindsay C. V. I., Fenelon Falls Secondary School, or L. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student's home township.

**Amount:** 1 award of $1,200

**International Student Entrance Bursaries [E3043]**

In support of the University's strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar's Entrance Award Application to Student Financial Services.

**Donor(s):** University of Guelph

**Qualification(s):** Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.

**Amount:** Several awards ranging in value from $1,000 to $3,000

**Registrar's Entrance Bursaries [E0384]**

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Bursary, but can be held with all other entrance awards.

**Donor(s):** University of Guelph

**Qualification(s):** Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.

**Amount:** 500 awards of $2,000

**Robert Arthur Stewart Bursaries [E3272]**

Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

**Donor(s):** The Estate of Mrs. H. Stewart

**Qualification(s):** Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.

**Amount:** 12 awards of $500

**University of Guelph Accessibility Bursaries [E3038]**

Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar's Entrance Bursary, but can be held with all other Entrance Awards.

**Donor(s):** University of Guelph

**Qualification(s):** Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.

**Amount:** 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

In-course Scholarships

**1961-1964 Redmen Football Scholarships [I0770]**

Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Dr. Robert Keith (c/o 1961-1964 Football Committee)

**Qualification(s):** Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** several scholarships ranging from $1500 to $3500
### Bob & Joyce Brooks Football Scholarships [10691]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

| Donor(s): | Mrs. Joyce Brooks |
| Qualification(s): | Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete |
| Amount: | Numerous awards ranging in value from $750 to $3,500 |

### Bruce W. Minshall Memorial Scholarship [10450]

Provided by Dr. W.H. Minshall (O.A.C. ’33) in memory of his son Bruce, a graduate of O.A.C. in 1970. Apply by May 15 to the OAC Dean’s Office (Awards) by letter listing courses taken in the area of crop protection. Awarded in the fall semester.

| Donor(s): | O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall |
| Qualification(s): | O.A.C. students in the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree programs who have completed semester level 6 are eligible. Interest in crop protection and achievement in courses such as CROP*4240, ENVB*3030, ENVB*3210, ENVB*4100, and ENVB*4240 will be considered. Awarded to the student with an interest in crop protection and showing the greatest improvement in academic standing since entering the program. |
| Amount: | 1 award of $1,100 |

### Canadian Agri-Marketing Association (Ontario) Scholarship [10541]

Provided by the Canadian Association of Agri-Marketing Association (Ontario). Apply to the O.A.C. Awards Committee by May 15 with a summary of participation in the Ag Ec & Biz Society and in agri-marketing initiatives as well as a letter of recommendation from a faculty member.

| Donor(s): | Canadian Agri-Marketing Association (Ontario) |
| Qualification(s): | Student who has completed a minimum of 10.0 credits with a minimum cumulative average of 70% who are members of O.A.C. and the Ag Ec & Biz Society. Selection will be based on a combination of academic achievement and a demonstrated interest in agri-marketing. |
| Amount: | 1 award of $1,000 |

### CBS Student Council Academic Achievement Scholarship [10744]

The CBS Student Council provides this scholarship to recognize and further encourage the academic and extracurricular achievements of CBS students. Selection will be based on academic achievement, extracurricular activities and personal essay. Apply to the CBS Dean’s Office by May 15 with a completed application form listing academic awards, scholarships, research experience, publications and extra-curricular activities along with a 500 word personal essay outlining how the academic achievements and extra-curricular activities contribute to academic and personal goals. Award may be held only once.

| Donor(s): | CBS Student Council |
| Qualification(s): | Full time students registered in a major offered by the College of Biological Science who have completed at least 10.0 credits with a minimum cumulative average of 85%. |
| Amount: | 1 award of $2,500 |

### CBS Student Council Extracurricular Achievement Scholarship [10745]

The CBS Student Council provides this scholarship to recognize and further encourage the academic and extracurricular achievements of CBS students. Selection will be based on breadth of extra-curricular activities, academic achievement and personal essay. Apply to the CBS Dean’s Office by May 15 with a completed application form listing extra-curricular activities, academic awards, scholarships, research experience and publications along with a 500 word personal essay outlining how the extra-curricular activities and academic achievements contribute to academic and personal goals. Award may be held only once.

| Donor(s): | CBS Student Council |
| Qualification(s): | Full time students registered in a major offered by the College of Biological Science who have completed at least 10.0 credits with a minimum cumulative average of 80%. |
| Amount: | 1 award of $2,500 |

### CFRU Volunteer Award [10215]

Apply to the CFRU Board of Governors by April 30.

| Donor(s): | Station Manager, CFRU |
| Qualification(s): | Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU. |
| Amount: | 2 awards of $250 |
### Charles McGowan Memorial Prize [C0187]
- **Amount:** 1 award of $200
- **Qualification:** Outstanding graduating student in an O.A.C. degree program.
- **Donor(s):** Charles McGowan Memorial Fund

### Class of '51 O.A.C. Leadership Prizes [C0063]
- **Amount:** 5 awards of $2,000
- **Qualification:** Students graduating from the degree program in a major in an O.A.C. department who have a 70% standing in the final year of study and who have demonstrated leadership in the College or University extracurricular activities.
- **Donor(s):** Year '51 O.A.C.

### Class of '67 O.A.C. Centennial Scholarship [10067]
- **Amount:** 1 award of $2,000
- **Qualification:** Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’ Honours List.
- **Donor(s):** Class of O.A.C. '67

### Class of 1970 Scholarship [10424]
- **Amount:** 1 award of $2,000
- **Qualification:** Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’ Honours List.
- **Donor(s):** Class 1970: 25th Reunion Gift

### Clayton and Dorothy Switzer Scholarships [10276]
- **Amount:** 1 award of $900
- **Qualification:** Students registered in a degree program offered by O.A.C. with a minimum of 10.0 credits completed, at least a 70% cumulative average and has demonstrated outstanding leadership ability in O.A.C. student organizations, class executives and College Royal.
- **Donor(s):** Clayton and Dorothy Switzer

### CME Distinguished Scholar Medal – Undergraduate (Winegard Medal Nominee) [C0685]
- **Amount:** 1 Medal
- **Qualification:** To honour the outstanding achievements of a graduating undergraduate student in the College of Management and Economics. Application not necessary.
- **Donor(s):** Faculty, Staff, Alumni, and Students, College of Management and Economics

### CME Distinguished Scholar Medal- Undergraduate (Highest Cumulative Average) [C0728]
- **Amount:** 1 Medal
- **Qualification:** Students who are graduating in June, or who have graduated in the previous two convocations from the College of Management and Economics.
- **Donor(s):** Faculty, Staff, Alumni, and Students, College of Management and Economics

### Coach Rudy Florio Football Scholarship [10737]
- **Amount:** 1 award of $3,500
- **Qualification:** Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
- **Donor(s):** Mr. Rudy Florio

### College of Physical Engineering Science Graduation Prize [C0075]
- **Amount:** 1 award of $250
- **Qualification:** Student graduating with the highest cumulative average.
- **Donor(s):** College of Physical and Engineering Science

### College of Physical Engineering Science Scholarship [10076]
- **Amount:** 1 award of $2,000
- **Qualification:** Student with the highest grade in course ACCT*3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship will be given to the student with the highest cumulative average in their program.
- **Donor(s):** College of Physical and Engineering Science

### Collins Barrow Award [10040]
- **Amount:** 1 award of $500
- **Qualification:** Student registered in the Fall semester who achieves high academic standing in Introductory Apiculture (ENVB*2210) in the previous year, demonstrates an interest in apiculture and who has participated in extracurricular activities.
- **Donor(s):** Collins Barrow Chartered Accountants

### Deans’ Scholarships [10323]
- **Amount:** 1 award of $150
- **Qualification:** This award was established by the Board of Governors in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.
- **Donor(s):** Board of Governors

### David F. Boyes Apiculture Scholarship [10031]
- **Amount:** 1 award of $2,000
- **Qualification:** Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for at least 15.0 course credits in a College of Physical and Engineering Science program and have excellent grades but have not received any other awards recently.
- **Donor(s):** The Innovative Farmers Association of Ontario

### David E. Robinson Memorial Prize for Excellence in Communications [10409]
- **Amount:** 150 awards of $1,000
- **Qualification:** Students registered in any degree program offered by OAC who have completed one or more of the following courses with a minimum grade of 75% in each course completed: EDRD*3050 Agricultural Communication; EDRD*3120 Educational Communication; EDRD*3140 Organizational Communication; EDRD*3160 International Communication; ENVB*3000 Nature Interpretation.
- **Donor(s):** The Innovative Farmers Association of Ontario

**Last Revision: Oct. 19, 2012**
Dr. Caesar V. Senoff Memorial Scholarship for Excellence in Chemistry [I0517]
The Senoff family and the College of Physical and Engineering Science, together with the University of Guelph Faculty Association and friends, have established this scholarship in memory of Dr. Caesar V. Senoff. Dr. Senoff discovered the first dinitrogen complex while completing his PhD at the University of Toronto, opening up a new field of chemistry. A valued member of the University of Guelph faculty from 1968 to 1996, his positive influence continues through his students and colleagues. This scholarship will be given annually to the student with the highest cumulative average. Application is not required.

Donor(s): Senoff family and the College of Physical and Engineering Science, together with the University of Guelph Faculty Association and friends
Qualification(s): Students registered in a major offered by the Department of Chemistry who have completed between 7.5 and 9.75 credits and a minimum cumulative average of 80%
Amount: 1 award of $500

Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [I0695]
Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

Donor(s): Various Donors
Qualification(s): Current member of the Varsity Cross/Country or Track and Field Team, who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete
Amount: 1 award of $1,350

Dr. Michael R. Moss Scholarship [I0553]
Established by the friends and colleagues of Dr. Michael R. Moss, the founding Associate Dean of the Faculty of Environmental Sciences. This scholarship is awarded to the student that has demonstrated the most significant increase in his/her cumulative average from 7.0 course credits to 14.0 course credits. Application is not required.

Donor(s): Friends and Colleagues of Dr. Michael Moss
Qualification(s): Full-time students enrolled in the BSc(Env.) program with a minimum 14.0 course credits.
Amount: 1 award of $1,000

Dr. R. J. Hilton Memorial Scholarship [I0678]
Established to honour the accomplishments of Dr. Hilton as the Chair, Horticulture Science, University of Guelph, first Director of the Arboretum and President/Chair of the Royal Botanical Gardens. Selection will be based on the highest cumulative average, demonstrated involvement in horticulture activities and involvement in academic club activities. Summer related work experience will also be considered. Preference will be given to students registered in B.Sc.(Agr.) CHATS and B.Sc. Plant Science. Apply by May 15 to the O.A.C. Awards Office with a letter outlining the plant agriculture course(s) and/or involvement in horticultural activities and summer related work experience or information about involvement in academic club activities.

Donor(s): Robert E. Hilton
Qualification(s): Students registered in any program offered by O.A.C. who have completed a minimum 8.0 credits with a minimum 70% cumulative average.
Amount: 1 award of $1,000

E.B. MacNaughton Convocation Prize [C0171]
Established by the College of Physical and Engineering Science to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Application is not required. One award of a plaque-mounted medal and $250.

Donor(s): The College of Physical and Engineering Science
Qualification(s): The College of Physical and Engineering Science nominee for the Winegard Medal.
Amount: 1 award of $250, 1 Plaque-mounted medal

Elaine Scott-Thomas Track and Field Scholarship [I0706]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Dave Scott-Thomas CBS BSc '88
Qualification(s): Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete
Amount: 1 award of $1,500

Embry Family Scholarship [I0736]
Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Mr. John Embry
Qualification(s): Current member of a varsity team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $3,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [I0627]
Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee.
Application is not required.

Donor(s): Ernest Kendall
Qualification(s): In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.
Amount: 2 awards of $1,350

Floyd Roadhouse Prize in Analytical Chemistry [I0247]
Awarded to the student with the highest grade in CHEM*2400 Analytical Chemistry I in the previous calendar year. In the event of a tie, laboratory performance will be considered. Presented in the Winter semester. Application is not required.

Donor(s): Professor F.E.B. Roadhouse, colleagues, students and friends
Qualification(s): Students registered in an honours major program offered by the Department of Chemistry and who have completed CHEM*2400, Analytical Chemistry.
Amount: 1 award of $200

Football Endowment Fund (FEF) Scholarship [I0644]
Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Various University of Guelph donors
Qualification(s): In-course student-athlete who is a current member of the Men's football team and has achieved a minimum 70% average in the previous academic year.
Amount: various awards of $750 to $3,500

Frances M. Stretton Scholarship [I0768]
Selection will be based on significant prior contributions to and experience in community-based service. Preference will be given to students working on a project related to nutrition, food safety or sustainability within the College. Apply to the CSAHS Awards Committee by May 15th with a summary letter outlining prior contributions to and experience in community-based service and how funds would be used to support participation in curriculum-embedded experiential learning opportunities in the following academic year.

Donor(s): Mrs. Frances M. Stretton
Qualification(s): Students registered full-time in any program offered by the College of Social and Applied Human Sciences with a minimum of 75% cumulative average who are participating in curriculum-embedded community-based experiential learning in the following academic year.
Amount: 1 award of $3,000

George A. Gray O.A.C. ’51 Varsity Scholarships [I0487]
Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.

Donor(s): Mrs. George A. Gray
Qualification(s): In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.
Amount: 2 awards of $1,250
George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [I0677]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** George Ames

**Qualification(s):** In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $3,500

Gerard and Christel Baldauf Men's Basketball Scholarship [I0639]

Established by Christian Baldauf, BSc. '95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. Christian Baldauf

**Qualification(s):** In-course student-athlete registered in the BSc. program who is a current member of the Men's Basketball varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** 1 award of $3,500

Gonder Family Centre for Students with Disabilities Volunteer Scholarship [I0563]

In recognition of the many students who volunteer their time and talents to assist their colleagues registered with the Centre for Students with Disabilities (CSD) and to encourage others to do so. Dr. John and Mrs. Katherine Gonder provide this award to a student who has volunteered in the CSD. The award will be made on the basis of the volunteer activities undertaken by the student at the CSD, one letter of reference, and a personal statement that outlines the time commitment and types of volunteer activities undertaken as well as an indication of how this was a valuable and rewarding volunteer experience. Apply by January 15th to the CSD (c/o Advisor to Students with Disabilities) by submitting above documentation.

**Donor(s):** Dr. John and Mrs. Katherine Gonder

**Qualification(s):** All students registered in the College of Social and Applied Human Sciences (CSAHS) that have completed between 10.0 and 15.0 course credits with a minimum 70% cumulative average, and have been involved as volunteers with the CSD.

**Amount:** 1 award of $900

Gonder Family Scholarship [I0580]

Established in recognition of the diversity of student abilities and the varying challenges of undergraduate study. The recipient will be chosen on the basis of academic achievement with a preference to students enrolled in any CME major of the B.Comm. program. Application is not required.

**Donor(s):** Dr. John and Mrs. Katherine Gonder

**Qualification(s):** All students in the CME who have completed between 10.0 and 15.0 course credits with a minimum 70% cumulative average, and who have been identified with a learning disability through the University of Guelph's Centre for Students with Disabilities.

**Amount:** 1 award of $900

Governor General’s Medal [C0044]

Established by the Office of the Governor General of Canada. Application is not required.

**Donor(s):** The Chancellery

**Qualification(s):** Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.

**Amount:** 2 awards of a Silver medal each

Gryphon Athletic Scholarships [I0631]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** University of Guelph

**Qualification(s):** In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.

**Amount:** various awards of $750 to $3,500

Guelph Soap Company Scholarship [I0288]

Established by the Guelph Soap Company and awarded to the student with the highest average in BIO*C2580 and two courses in Organic Chemistry (CHEM*3750, 3750, 3760, 4720, 4730). Application is not required.

**Donor(s):** Tricor Chemical Specialties

**Qualification(s):** Students registered in a major offered by the Department of Chemistry who have completed CHEM*3750 or CHEM*3760 during the previous calendar year and completed BIO*C2580.

**Amount:** 1 award of $1,200

H. Paul Jolly Scholarship [I0193]

Application is not required.

**Donor(s):** Richard Sulin

**Qualification(s):** Student with the highest cumulative average entering semester 3 of the B.Sc.(Env.) program.

**Amount:** 1 award of $450

Highdale Farms Scholarship [I0348]

Apply to Student Financial Services by May 15 with a letter demonstrating leadership ability as evidenced by extra-curricular involvements.

**Donor(s):** Arthur Spoerri

**Qualification(s):** Two awards are available for students in semesters 3 through 6 with at least a 75% cumulative average and whose primary area of study is related to the natural sciences. The first award is based on academic proficiency. The second award is based on academic proficiency and demonstrated leadership with preference given to students from Ottawa-Carleton, Dundas-Glengarry-Stormont, Grenville, Lanark, Prescott-Russell and Renfrew counties.

**Amount:** 2 awards of $2,500

International Undergraduate Scholarship [I0577]

Established through a student referendum approved by the undergraduate student body, to recognize international students' academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extra-curricular activity since entry to the University and two academic and/or professional references. This award can only be held once by the student.

**Donor(s):** International Student Organization (ISO)

**Qualification(s):** Full-time International students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%.

**Amount:** 2 awards of $2,000

Jack and Lillian MacDonald Scholarship [E0379]

Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnic Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald

**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).

**Amount:** 1 award of $900

James MacMillan Memorial Scholarship [I0494]

Established in memory of James MacMillan, his great uncle, by Austin Conway of Toronto. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter indicating the program at Kemptville in which the applicant graduated from to Student Financial Services by October 7.

**Donor(s):** Austin Conway

**Qualification(s):** Kemptville College graduate with a minimum 75% cumulative average at convocation who registers in the O.A.C. degree program in Agriculture or in Agriculture and Business.

**Amount:** 1 award of $2,500

Jim Stokman Memorial Scholarship [I0386]

Mrs. Stokman and family, including her sons Nick (O.A.C.'77) and Andrew (O.A.C.'84) have established this award in memory of her husband and their father to recognize his lifetime contribution to the family farm. Apply by May 15th to the OAC Awards Office with a letter that indicates rural background and demonstrated community/student involvement both during high school and the first two semesters of University.

**Donor(s):** Mrs. Jim Stokman

**Qualification(s):** Available to O.A.C. students who have completed 5.0 credits with at least 'B' average in one of the following programs: B.Sc.(Agr.), B.Comm., B.Sc.or B.Sc.(Env.). Students must have come from a rural background and have demonstrated community/student involvement both during high school and the first two semesters of University.

**Amount:** 1 award of $550
John A. Archibald Memorial Scholarship [10014]
Awarded in memory of John A. Archibald, former Director of the Horticultural Research Institute of Ontario. Apply by May 15 to the OAC Dean's Office (Awards) with a letter listing courses taken in Land Resource Science along with an outline of your participation in any extracurricular activities.

**Donor(s):** The friends and associates of the late John A. Archibald

**Qualification(s):** Students who are registered in any extracurricular activities in the Department of Land Resource Science who has completed semester 6. The recipient will be chosen on the basis both of high academic standing and participation in extracurricular activities.

**Amount:** 1 award of $750

John Burton Scholarship [10642]
Established by Dr. John Burton, BSA 1962, a former faculty member in the Department of Animal and Poultry Science. Selection will be based on involvement with and contribution to the horse industry, future career aspirations in the horse industry sector and participation in community activities. Preference will be given to student who have demonstrated leadership ability within the student body. Apply by May 15 to the OAC Awards Office with a letter, of no more than two-pages, outlining involvement with and contributions to the horse industry, career aspirations, and extracurricular involvements.

**Donor(s):** Dr. John Burton

**Qualification(s):** Students registered in any program offered by the OAC who have completed between 10.0 and 12.0 credits with a minimum 70% average

**Amount:** 1 award of $1,000

John Eccles Scholarship [10093]
Applying to Student Financial Services, by May 15, with a letter highlighting leadership abilities through participation on residence life. Providing a reference letter would be an asset.

**Donor(s):** Student Housing Services

**Qualification(s):** Full-time student registered in semester 2, 3, 4, 5 or 6 and living in residence in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.

**Amount:** 1 award of $600

John Kenneth Galbraith Scholarship in Economics [10108]
Selection will be based on the highest combined average in Economics (ECON) courses. No application necessary.

**Donor(s):** The Board of Governors, University of Guelph

**Qualification(s):** Students registered in any major offered by the Department of Economics who have completed between 12.50 and 15.00 credits.

**Amount:** 1 award of $600

Kelly Bertrand Cross Country Scholarship [10684]
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand

**Qualification(s):** Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $2,000

Ken and Marilyn Murray Scholarship [10734]
Dr. Kenneth G. Murray C.M., OAC BSA '50 and Honourary Doctor of Laws '96, and Mrs. Marilyn C. Murray, Mac BHSc '55, established this scholarship. Selection will be based on significant prior contributions to and experience in community-based service. Apply to the CSAHS Awards Committee by May 15th with a summary letter outlining prior contributions to and experience in community-based service, and how funds would be used to support participation in curriculum-embedded experiential learning opportunities in the following academic year.

**Donor(s):** Dr. Kenneth G. and Mrs. Marilyn C. Murray

**Qualification(s):** Full-time students registered in the College of Social and Applied Human Sciences with a minimum 75% cumulative average who are participating in curriculum-embedded community-based experiential learning in the province of Ontario in the following academic year will be eligible for this award.

**Amount:** 1 award of $2,000

Kenneth W. Hammond Prize [10045]
The evaluation of the student will be based on the final essay in the "Environmental Perspectives and Human Choice: 5000 Days" course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

**Donor(s):** Kenneth W. Hammond

**Qualification(s):** Students who have demonstrated an understanding of the world's resource situation and its proper use by humankind.

**Amount:** 1 award of $1,000

Kevin Durie Memorial Scholarship [10653]
Established in memory of Kevin Durie, BA '93, by his family and friends. Selection will be based on demonstration of outstanding service as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words outlining time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

**Donor(s):** Christine Blake-Durie

**Qualification(s):** Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.

**Amount:** 1 award of $1,000

Kip Hunter Prize [10139]
For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

**Donor(s):** Faculty, students and staff of the Philosophy Department

**Qualification(s):** Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.

**Amount:** 1 Book prize

Lambda Foundation Scholarship in LBGT Studies [10591]
This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a given student only once. Projects must have been completed or research proposals accepted within the past calendar year. Apply to the Dean of Arts by December 15th including the research proposal or completed project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.

**Donor(s):** Lambda Foundation and other donors

**Qualification(s):** Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.

**Amount:** 1 award of $1,000

Lange and Prokipcak Chemistry Scholarship [10528]
This scholarship was established by Professor Gordon L. Lange, Professor Joe M. Prokipcak, friends and colleagues. Professors Gordon L. Lange and Joe M. Prokipcak were valued members of the chemistry Faculty who retired in 2001. Their excellence in teaching was recognized within the university and nationwide, winning them a total of eleven teaching awards. This scholarship will be awarded to the student with the highest average grade in CHEM*1040, 1050 and 2700. Application is not required.

**Donor(s):** Professor Gordon L. Lange, Professor Joe M. Prokipcak and friends and colleagues

**Qualification(s):** Student registered in any program offered by C.P.E.S. who has completed CHEM*1040, CHEM*1050, CHEM*2700 and have completed a minimum of 10.0 credits up to a maximum of 14.75 credits.

**Amount:** 1 award of $1,000
Larry Pearson Men’s Volleyball Athletic Scholarships [I0618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s):  Larry Pearson
Qualification(s): In-course student-athlete who is a current member of the men’s varsity volleyball team and has achieved a minimum 70% average in the previous academic year.
Amount: several awards up to $3,500

Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [I0732]
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Maryam Latifpoor-Keparoutis
Qualification(s): Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,200

Leonard Connolly Exchange Student Scholarship [I0446]
Established by students, faculty, staff and friends to honour Prof. Leonard Connolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

Donor(s): Students, staff, faculty and friends of Dr. Leonard Connolly
Qualification(s): Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).
Amount: 1 award of $1,000

Lloyd Dorf Memorial Hockey Scholarship [I0708]
Established in memory of Lloyd Dorf to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will exhibit strong academics and extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Family and Friends of the late Lloyd Dorf
Qualification(s): Current member of the men’s varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,000

Mae McEwen Memorial Scholarship [I0185]
Apply to the OAC Awards office by May 15.

Donor(s): The estate of Mae McEwen
Qualification(s): Student who has completed semester 6 of the Environmental Biology major in the B.Sc. or B.Sc (Env.) programs with a cumulative average of 80% or better. Participation in extra curricular activities related to environmental issues will be considered in determining the recipient.
Amount: 1 award of $500

Marion McKenzie Scholarships for Outstanding Achievement in History [I0470]
These prizes have been established in memory of Marion McKenzie (1905-1994), a teacher who had a love of learning and a continuing curiosity about the world both past and present. These are awarded to the top student in each of the required core courses in the History program (HIST*1010, HIST*2450, HIST*2602 ). Application is not required.

Donor(s): TBA
Qualification(s): The recipient for HIST*1010 must have completed no more than 5.0 credits; the recipient for HIST*2450, no more than 10.0 credits and be in the history program; and the recipient for HIST*2602, no more than 10.0 credits.
Amount: 3 awards of $400

Men’s Basketball Scholarships [I0638]
Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Anonymous (Alumni)
Qualification(s): In-course student-athlete who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.
Amount: 4 awards of $2,500

Men’s Soccer Alumni Scholarship [I0771]
Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)
Qualification(s): Current member of the Gryphon Men’s Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: several awards ranging in value from $1,000 to $3,500

Monroe Landon Memorial Prize [C0153]
Preference will be given to a student residing in the region of Halldimand Norfolk. Apply by letter, with a transcript, to the Chair, Department of Integrative Biology by January 31 indicating experience in the field of botany/conservation.

Donor(s): The friends of Monroe Landon
Qualification(s): Students that have completed a minimum of 17.0 credits in honours Plant Biology or Plant Science or Ecology with a minimum cumulative average of 70% and demonstrates an active interest in the conservation of native species and field research.
Amount: 1 award of $550

Nathan Max Goldman Choir Scholarships [I0774]
Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and / or the Chamber Choir. One award will be available to a student in each choir and will be given to the candidate who best combines high vocal achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required as a recommendation by Choir Director will be made to the SOFAM Awards Committee.

Donor(s): Mrs. Anne Goldman and the family of Nathan Max Goldman
Qualification(s): Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and / or the Chamber Choir and have been a member of the University of Guelph Choirs for at least two years.
Amount: 2 awards of $1,000

O.A.C. ’55 Scholarships [I0064]
Provided by the class of O.A.C. ’55. Recipients will have made an outstanding contribution to College life through academic proficiency and participation in extracurricular activities and can be considered to have done the most for the College for fellow students and in their personal development. Apply by May 15 to the OAC Dean’s Office (Awards) with a letter outlining your participation in Class/College/University activities. Awarded in the fall semester.

Donor(s): O.A.C. ’55
Qualification(s): Students registered in any O.A.C. degree program or students registered in the B.ENG. program that have completed a minimum of 10.0 with at least a 70% cumulative average.
Amount: 1 award of $2,000
### O.A.C. Centennial Graduate Prizes [C0209]
The Ontario Agricultural College celebrated its 100th Anniversary in 1974. Many organizations and companies associated with the agricultural industry provided funds in conjunction with the Centennial activities. Funds have been established in perpetuity as a permanent commemoration of the Centennial of the College. Application to OAC Awards Office by April 1 with a letter outlining extracurricular activities. Selection will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the student's university career.

| Donor(s): | Dean, O.A.C. |
| Qualification(s): | Students graduating from a degree program administered by the Ontario Agricultural College and who plan to pursue graduate studies in any department or school of the Ontario Agricultural College in the year of baccalaureate graduation. The fellowship will be based on academic achievement in semesters 7 and 8, as well as participation in extracurricular activities throughout the student's university career. |
| Amount: | 1 award of $2,200 |

### O.A.C. Students' Federation Medal [C0217]
Application is not required.

| Donor(s): | O.A.C. |
| Qualification(s): | Graduating student in an undergraduate degree program in a major in an O.A.C. department who has been an outstanding leader in student activities at the College level throughout his or her University career. |
| Amount: | 1 award of a Medal |

### Priscilla and Stanford Reid Trust Prize [I0597]
Established in honour the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written about the history of Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.

| Donor(s): | Priscilla and Stanford Reid Trust Fund |
| Qualification(s): | Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition. |
| Amount: | 1 award of $500 |

### Professional Staff Association Scholarship [I0628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 by sending an email to awards@registrar.uoguelph.ca and include the name of the family member of the Professional/Managerial Group of the University, and/or retired Professional/Managerial Group of the University of Guelph. This award may be held more than once, however, not in consecutive years. Preference will be given to students of current or retired P.S.A. members.

| Donor(s): | Professional Staff Association |
| Qualification(s): | Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average. |
| Amount: | 1 award of $1,500 |

### Professor Victor Matthews Track and Field Scholarships [I0707]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

| Donor(s): | Various Donors |
| Qualification(s): | Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete |
| Amount: | up to 10 $3500 each |

### Rachel Cliff Scholarship [I0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

| Donor(s): | Mr. Ronald & Nancy Cliff |
| Qualification(s): | Current member of the Women’s Middle Distance Team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete. |
| Amount: | 1 award of $1,500 |

### Robert Harcourt Scholarships [I0121]
Established, by the estate of Mrs. R. Harcourt in memory of the late Dr. Robert Harcourt. Selection will be based on highest cumulative averages for those entering year 3 and year 4. One scholarship will be awarded to year 3 entering students and one to year 4 entering students. Application is not required.

| Donor(s): | Estate of Mrs. R. Harcourt |
| Qualification(s): | Students entering year 3 having completed 9.0 credits and year 4 having completed 14.0 credits in a program offered by the School of Environmental Sciences. |
| Amount: | 2 awards of $750 |

### Russell Athletic Scholarships [I0722]
The recipients will be selected based on demonstrated leadership qualities and contributions to the team. Coaches will nominate students to the Athletic Awards Committee. No application necessary.

| Donor(s): | H.D. Brown Enterprises Ltd. |
| Qualification(s): | Current members of a University of Guelph Varsity Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete. |
| Amount: | 4 awards of $2,500 |

### School of Environmental Sciences Academic Prize [C0425]
The student with the highest cumulative average will receive this award. Application is not required.

| Donor(s): | The School of Environmental Sciences |
| Qualification(s): | Students who are graduating in June, or who have graduated in the previous two convocations, from any major in the School of Environmental Sciences. |
| Amount: | 1 award of $1,000 |

### School of Environmental Sciences Achievement Prize [C0426]
Apply to the O.A.C. Awards Office by April 1 with a letter of no more than 2 pages outlining contributions to student life and/or community activities. Selection will be made on academic achievement and demonstrated leadership ability.

| Donor(s): | The School of Environmental Sciences |
| Qualification(s): | Students who are graduating in June, or who have graduated in the previous two convocations, from any major in the School of Environmental Sciences with a minimum cumulative average of 70%. |
| Amount: | 1 award of $1,000 |

### Sprung Family Men's Basketball Scholarship [I0672]
Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

| Donor(s): | Mr. Timothy Sprung |
| Qualification(s): | In-course student-athlete who is a current member of the Men's basketball team and has achieved a minimum 70% average in the previous academic year. |
| Amount: | 1 award of $3,500 |

### Stantec Environmental Science Scholarship [I0620]
Established by Stantec Consulting Ltd., a major employer of numerous professional consulting disciplines offers this scholarship to assist students interested in developing solid scientific and communication capabilities as future Environmental Science consultants serving society. Selection will be based on the highest combined average in Terrestrial Systems ENV*2150, and one of a) Environmental Politics POLS*3370, or b) Management of the Biophysical Environment and Governance GEOG*3210 or c) Natural Resources Policy BIOL*4040 . Application is not required.

| Donor(s): | Stantec Consulting Ltd. |
| Qualification(s): | Students enrolled in the Bachelor of Science in Environmental Sciences program who have completed 10.0 credits and have a minimum 75% cumulative average. |
| Amount: | 1 award of $1,250 |

### Stephanie Wilken Volunteer Scholarship [I0449]
Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to Student Financial Services with letter indicating the kind and extent of volunteer activities. Selection will be made on academic performance in all courses to date and volunteer work at the Wellness Centre.

| Donor(s): | Bev and Darlene Wilken |
| Qualification(s): | Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre. |
| Amount: | 1 award of $1,000 |
T.K. Warley Agrifood Policy Prize [I0212]

Established by Prof. T.K. Warley, former Chair of the Department of Food Agriculture and Resource Economics and a faculty member of the Ontario Agricultural College from 1970 to 1991. Application is not required.

**Donor(s):** Professor T.K. Warley

**Qualification(s):** Student providing the best term paper written on a public policy issue relating to the agrifood system or rural society in courses such as AGEC*3030 Price and Production Analysis, AGEC*4000 Agricultural and Food Policy, and AGEC*4720 Special Study in Food Agriculture and Resource Economics.

**Amount:** 1 award of $500

Tatjana Schulz Vanegas Memorial Scholarship [I0746]

Established in memory of Tatjana Schulz Vanegas. Selection will be based on academic achievement and demonstrated passion for biological sciences as evidenced by extracurricular activity, volunteerism and career goals. Apply by May 15 to the Associate Dean Academic, CBS, with a letter of no more than two-pages in length describing extra-curricular activities, volunteerism and career goals demonstrating a passion for biological science.

**Donor(s):** Family and Friends of Tatjana Schulz

**Qualification(s):** Full time students registered in the College of Biological Science (CBS), who have taken at least one botany course (BOT) and completed at least 10.00 credits with a minimum 70.0% cumulative average.

**Amount:** 1 award of $1,000

Thomas H. Peters Scholarship [I0233]

Application is not required.

**Donor(s):** Friends and associates of Thomas H. Peters

**Qualification(s):** Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.

**Amount:** 1 award of $250

Toronto District Beekeeper’s Association Scholarship [I0285]

A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application is not required.

**Donor(s):** Mr. Jack Robinson

**Qualification(s):** The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.

**Amount:** 1 award of $500

United Steelworkers Local 4120 Scholarship [I0293]

Apply to Student Financial Services by January 31 and provide the name of the USWA member and relationship to the applicant. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class standing in his or her previous full-time semester.

**Donor(s):** United Steelworkers LU4120

**Qualification(s):** Student who is a member or former member, or who is from the immediate family of a member of United Steelworkers LU 4120, and who is entering semester 2, 3, or 4 of a degree or diploma program in the Winter semester with a minimum 70% cumulative average.

**Amount:** 1 award of $1,000

University of Guelph Alumni Legacy Scholarship [I0735]

Funded through donations made to the University of Guelph Alumni Memorial Fund in memory of deceased alumni. The recipient will be selected based on academic achievement and volunteer contributions to the University of Guelph community. Apply to Student Financial Services by May 15 with a cover letter indicating name, degree and year of graduation of alumnus/alumna relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.

**Donor(s):** Various donors c/o University of Guelph Alumni Association Memorial Fund

**Qualification(s):** Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with both a minimum cumulative average of 75% and demonstrated volunteer leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumnus/us of the University of Guelph or its founding colleges.

**Amount:** 1 award of $1,000

Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]

Selection will be made on the basis of participation in university activities and in the student’s home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

**Donor(s):** Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family

**Qualification(s):** Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.

**Amount:** 2 awards of $400

W. Harold Minshall Scholarship [I0451]

Provided by Dr. W.H. Minshall (O.A.C.’33). Apply by May 15th to the OAC Awards Office with a letter indicating interest and aptitude in crop protection, particularly in weed biology and management and listing extra-curricular involvements. Awarded on the basis of academic standing in the relevant courses and participation in extra curricular activities.

**Donor(s):** O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall

**Qualification(s):** O.A.C. students in the B.Sc.(Agr.), B.Sc.(Env.) or B.Sc. degree programs who have completed semester level 6 are eligible. Interest and aptitude in crop protection, particularly in weed biology and management. Interest in crop protection and achievement in courses such as CROP*4240, ENVB*3030, ENVB*3210, ENVB*4100, and ENVB*4240 will be considered.

**Amount:** 1 award of $1,100

W.C. Vineyard Medal [C0311]

The W.C. Vineyard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** The Board of Governors of the University

**Qualification(s):** Graduating student who excels both academically and in extra curricular activities.

**Amount:** 1 award of a Gold medal

W.N. Vaughan Medal [C0299]

Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.

**Donor(s):** Friends of Walter N. Vaughan

**Qualification(s):** Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.

**Amount:** 1 award of a Medal

William A. Brechin Scholarship [I0574]

Established to honour the work of Maryon Brechin’s husband, O.A.C. ’36, who dedicated his career to soil and water quality concerns. Students must have a demonstrated interest and competence in soil and water quality issues such as employment or extracurricular experience in promoting environmental protection of soil and water resources. Apply by May 15 to the O.A.C. Awards Office by letter of not more than two pages.

**Donor(s):** Maryon Brechin

**Qualification(s):** Any student registered in a major offered by the Department of Land Resource Science who has completed a minimum 15.0 course credits.

**Amount:** 1 award of $1,000

Last Revision: Oct. 19, 2012
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>William L. McEwen OAC '43 Men's Varsity Hockey Scholarships [10703]</td>
<td></td>
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<td></td>
<td>The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td>Mrs. Irene McEwen Scholarship</td>
<td>Reviewed by Irene McEwen</td>
<td>Current member of the Men's Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.</td>
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<tr>
<td>1 award of $2,500</td>
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<td>ACCESS AWARD</td>
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<tr>
<td>1 award of $2,000</td>
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<td>ACCESS AWARD</td>
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<tr>
<td>5 awards of $5,000</td>
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<td>ACCESS AWARD</td>
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<tr>
<td>William P. Weber Football Scholarship [10634]</td>
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<td></td>
<td>Established by Dr. William P. Weber, OVC '59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
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<tr>
<td>Donor(s): Dr. William P. Weber</td>
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<td>ACCESS AWARD</td>
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<tr>
<td>Qualification(s): In-course student-athlete who is a current member of the Men's Football team and achieved a minimum 70% average in the previous academic year.</td>
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<tr>
<td>Amount: 1 award of $2,500</td>
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<td>ACCESS AWARD</td>
</tr>
<tr>
<td>In-course Scholarships with Financial Need</td>
<td></td>
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<td></td>
<td>Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.</td>
</tr>
<tr>
<td>3M Canada Scholarships [10564]</td>
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<td></td>
<td>Established by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.</td>
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<tr>
<td>Donor(s): 3M Canada Company</td>
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<td></td>
<td>Established by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.</td>
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<tr>
<td>Qualification(s): Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.</td>
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<tr>
<td>Amount: various award of up to $4,000</td>
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<td>ACCESS AWARD</td>
</tr>
<tr>
<td>Agnes Yuen Leadership Scholarship [14401]</td>
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<td></td>
<td>Established by a number of industrial, commercial and public sector corporations with matching funding through the Ontario Student Opportunities Trust Fund.</td>
</tr>
<tr>
<td>Qualification(s): Students registered in a program offered by the College of Management and Economics who have completed between 5.0 and 17.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
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<tr>
<td>Amount: 1 award of $1,500</td>
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<td>ACCESS AWARD</td>
</tr>
<tr>
<td>Anne and Ross Bronson Scholarship in Environmental Science [14514]</td>
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<td></td>
<td>Established by the family of Anne and Ross Bronson in honour of their 50th wedding anniversary with the aid of the Ontario government’s OTSS program. Preference will be given to students with a farming background. Apply by October 7th with a letter indicating leadership abilities and involvement in the university and/or broader community and farming background and a completed Financial Need Assessment Form to Student Financial Services. ACCESS AWARD.</td>
</tr>
<tr>
<td>Qualification(s): Students registered in a program offered by the College of Management and Economics who have completed between 5.0 and 17.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
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<tr>
<td>Amount: 1 award of $2,000</td>
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<td>ACCESS AWARD</td>
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<tr>
<td>Barbara A. Bowen Scholarship [14390]</td>
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<td>Established by Barbara A. Bowen, MAC ’57. Preference will be given to students registered in Department of Family Relations and Nutrition. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD</td>
</tr>
<tr>
<td>Qualification(s): Students who have a minimum 75% average and are registered in any degree program in the College of Social and Applied Human Science with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
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<tr>
<td>Amount: 1 award of $4,500</td>
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<td>ACCESS AWARD</td>
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<tr>
<td>Brian Kenneth Howard Memorial Scholarship [14548]</td>
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<td>Established by Kenneth and Irene Howard in memory of their son, Brian Kenneth Howard. Awarded to a student assessed as having financial need with a preference given to students from York, Durham or Simcoe counties. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.</td>
</tr>
<tr>
<td>Qualification(s): Students registered in a program offered by the College of Management and Economics who have completed between 5.0 and 17.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
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<tr>
<td>Amount: 1 award of $2,700</td>
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<td>Access AWARD</td>
</tr>
<tr>
<td>C.P.E.S. Dean’s Scholarship - ACCESS [14527]</td>
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<td>Established with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.</td>
</tr>
<tr>
<td>Qualification(s): Students registered in a program offered by the College of Management and Economics who have completed between 5.0 and 17.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
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<td>Amount: 1 award of $800</td>
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<td>Access AWARD</td>
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<tr>
<td>CIBC Health and Science Scholarships [14402]</td>
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<td>Established by CIBC with aid of the Ontario government’s OTSS program. Apply by October 7 to Student Financial Services by submitting a completed Financial Need Assessment Form and a CIBC Health and Science Scholarship Application Form. Preference will be given to an equitable distribution of the awards across the areas of human health and nutritional sciences, molecular and cellular biology and integrative biology. Should no successful candidate be available in one area the awards will be distributed to the other areas. Selection will be based on academic standing and relevance of the research project proposal. ACCESS AWARD</td>
</tr>
<tr>
<td>Qualification(s): Students registered in a program offered by the College of Management and Economics who have completed between 5.0 and 17.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
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<tr>
<td>Amount: 1 award of $5,000</td>
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<td>Access AWARD</td>
</tr>
</tbody>
</table>

IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences
City of Guelph 175th Anniversary Scholarship [10515]

Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.

Donor(s): The Guelph Community Foundation
Qualification(s): Students registered in any degree program who have completed a minimum of 4.0 credits with a cumulative average of 70.0%. demonstration of leadership in the community and/or community service. Demonstrate a minimum of 15.0 credits. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $2,000

Donor(s): Earl B. MacNaughton C.P.E.S. ACCESS Scholarships [14172]

Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical and Engineering Science, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): The Family of Eleanor & Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund Scholarship
Qualification(s): Students currently registered in the final year of an honours program in the College of Physical and Engineering Science with high academic standing, demonstrated financial need, and who have completed a minimum of 15.0 credits. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,000

Eleanor Morgan & Bill Archibald Scholarships [14540]

The family of Eleanor and Bill Archibald, with the assistance of the Ontario government’s OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD.

Donor(s): The Family of Eleanor & Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, have demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).
Amount: 1 award of $1,000

Erin Demers Memorial Scholarship [10406]

The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with a supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.

Donor(s): Family and friends of Erin Katrina Demers
Qualification(s): Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.
Amount: 1 award of $1,500

Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [14546]

Established by Ernest Kendall, O.A.C. BSA 1932, with the assistance of the Ontario government’s OTSS program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award, you must list it on your N.A.F. Selection will be made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD

Donor(s): Ernest Kendall with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students with demonstrated financial need who are members of the women’s varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,350

Euclid-Hitachi Scholarships [14517]

Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government’s OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Graham Family Incentive Scholarship [14506]

Provided by Harvey Graham (O.A.C. ’39) with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): Harvey Graham O.A.C. ’39 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $4,000

Hung-So Chow Yuen Leadership Scholarship with matching funding through the Ontario Trust for Student Support program [14400]

This award was established in memory of Hung-So Chow Yuen, Stacey Yuen’s (CBS BSc Hon 2003 Alumni) late Grandmother. Apply to Student Financial Services by October 7 with a University of Guelph Financial Need Assessment Form along with a statement of up to 500 words outlining leadership and involvement in volunteer activities. Selection will be based on demonstrated exemplary leadership through involvement with on campus or of f campus volunteer activities (student associations/charitable or non-profit organizations) as described in a statement. ACCESS AWARD.

Donor(s): John and Agnes Yuen
Qualification(s): Students registered in a program offered by the College of Biological Science who have completed between 5.0 and 17.5 credits with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,500

John Embry Family Scholarship [14549]

Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

Donor(s): Mr. John Embry with matching funding through the Ontario Trust for Student Support program
Qualification(s): Student-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $3,350
**Landoni Athletic Scholarship [I4405]**

Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program

Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,000

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**Nora Spence Memorial Scholarship [I4394]**

This scholarship was created by George and Jane Spence in memory of their daughter Nora Spence, O.A.C. BSc’66 with the aid of the Ontario government’s OTSS program. Selection will be based on high academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Nora Spence with matching funding through the Ontario Trust for Student Support program

Qualification(s): BSc students registered in a major offered by O.A.C. who have a minimum cumulative average of 75% and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,000

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**O.A.C. ’52 Scholarships [I4538]**

Offered by the class of O.A.C.’52, with the assistance of the Ontario government’s OSOTF program. Apply by letter highlighting involvement in leadership and community activities and/or university life along with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

Donor(s): O.A.C. ’52 with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): O.A.C. students enrolled in a B.Sc. or B.Comm. or B.Sc. (Env.) programs who have demonstrated financial need, who are in good academic standing and who have demonstrated leadership. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: several awards of up to $4,000

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**R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [I0547]**

Dedicated by R. Douglas (O.A.C. ’39) and Kathleen (MAC ’39) Kennedy met at a “hop” on campus in 1937 and later married. They established this scholarship to celebrate their time on campus and their 62 years of marriage. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): R. Douglas and Kathleen Kennedy with matching funding through the Ontario Trust for Student Support program

Qualification(s): This scholarship will be awarded to a student in O.A.C. with high academic achievement and demonstrated financial need.

Amount: 1 award of $900

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**Residence Life Staff Scholarship [I0697]**

Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.

Donor(s): Student Housing Services

Qualification(s): Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.

Amount: 2 awards of $500

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**Returning Student Residence Scholarship [I0696]**

Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is an award is conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.

Donor(s): Student Housing Services

Qualification(s): Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.

Amount: 3 awards of $500

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**Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [I4515]**

Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS AWARD.

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program

Qualification(s): Entering student athlete who is a member of the varsity women’s ice hockey team with a minimum 80% admission average, or equivalent, and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: various awards of up to $3,500

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**Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [I4515]**

Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD.

Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program

Qualification(s): Current member of the women’s varsity ice hockey team who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: various awards of up to $3,500

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**Tara Lynn Giuliani Memorial Scholarship [I0375]**

In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7.

Donor(s): The Giuliani Family

Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.

Amount: 1 varying amounts

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**Tony and Anne Arrell Scholarships [I0686]**

Tony Arrell, OAC BSc (Agr) ’67 and Anne Arrell, MAC BHSC ’68 have established 20 in-course awards for students with financial need. Awards will be distributed so that all colleges are represented. Apply by October 7 with a completed Financial Need Assessment Form to Student Financial Services. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Tony and Anne Arrell, Burgundy Asset Management

Qualification(s): Students registered in any degree program who have completed a minimum of 2.0 credits with a minimum 80% cumulative average and demonstrated financial need.

Amount: 20 awards of $5,000
### University of Guelph Retiree Association Degree Scholarship [10569]

The University of Guelph Retiree Association established this $1,500 scholarship in 2007 to acknowledge in-course student achievement. The student having the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last two semesters of full-time studies will be chosen. Apply by May 15th to Student Financial Services with a letter indicating name of and relationship to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.

| Donor(s): | University of Guelph Retirees Association (U.G.R.A.) |
| Qualification(s): | Students with a minimum 75% cumulative average registered in a degree program who are related to a retiree of the University of Guelph as child, grandchild or great grandchild. |
| Amount: | 1 award of $1,500 |

### W. F. Mitchell Athletic Scholarship [14550]

Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

| Donor(s): | The Mitchell Family with matching funding through the Ontario Trust for Student Support program |
| Qualification(s): | Students who is a member of a varsity team who has achieved a minimum 70% average in the previous academic year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards). |
| Amount: | 1 award of $1,350 |

### Archie and Isabelle (Cook) Rintoul O.A.C. Bursary [13060]

Established by the family of Walter and Marian MacDougald on the 50th wedding anniversary of their parents, in recognition of their gift of life-long learning to their five children, with the assistance of the Ontario government’s OSOTF program. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

| Donor(s): | Archie and Isabelle (Cook) Rintoul |
| Qualification(s): | Students demonstrating financial need with a minimum of 10.0 credits and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to be addressed throughout the semester to assist students when the need is required. |
| Amount: | 1 award of $750 |

### Yeandle Family Scholarships [13546]

Provided by the Estate of Audrey Yeandle, a Mac’25 graduate and life-long supporter of the University, with the assistance of the Ontario government’s OSOTF program. Awards will be made on the basis of financial need and academic achievement. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.). Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

| Donor(s): | The Estate of Audrey Yeandle with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s): | Students registered in a program in the College of Social and Applied Human Sciences with a minimum cumulative average of 70%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount: | Several awards up to $2,000 |

### In-course Bursaries

#### Archie and Isabelle (Cook) Rintoul O.A.C. Bursary [13060]

Offered by Archie and Isabelle (Cook) Rintoul of O.A.C.’26 and MAC ’27 respectively. Apply with a completed Financial Need Assessment Form (N.A.F.) by October 7 to Student Financial Services. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

| Donor(s): | Archie and Isabelle (Cook) Rintoul |
| Qualification(s): | Students registered in the department of Environmental Biology in the B.Sc., B.Sc.(Agr.) or the B.Sc.(Env.) degree programs who have completed a minimum of 10.0 credits and who have demonstrated financial need. |
| Amount: | 1 award of $500 |

### Bette Stephenson Accessibility Bursary [13054]

In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student’s advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

| Donor(s): | University of Guelph |
| Qualification(s): | Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents. |
| Amount: | 3 awards to a maximum of $1,500 |

### Birks Family Foundation Bursary [13002]

Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

| Donor(s): | Birks Family Foundation |
| Qualification(s): | Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures. |
| Amount: | 1 award of $1,000 |
Brinson Partners Inc. Bursaries [I3526]

Established by Brinson Partners Inc., with the assistance of the Ontario government's OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,500

Burnbrae Farms Bursaries [I3525]

Established by Burnbrae Farms, with the assistance of the Ontario government's OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7. ACCESS AWARD.

Donor(s): Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,500

Catherine and Brian Berg Memorial Bursary [I3542]

Established by the families of Brian and Cathy Berg, with the assistance of the Ontario government's OSOTF program to support students who wish to study full-time. Apply to Student Financial Services by October 7. ACCESS AWARD.

Donor(s): Families of Cathy and Brian Berg with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): C.B.S. student with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $500

Class of ’72: 25th Reunion Bursaries [I3512]

Established by the Class of ’72: 25th Reunion Fund with the assistance of the Ontario government's OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Class of ’72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 3 awards of $1,000

Credit Valley Conservation Authority Foundation Bursary [I3007]

Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): Credit Valley Conservation Authority Foundation

Qualification(s): Full-time student registered in B.A. Geography, B.Sc. Geographic Information Systems and Environmental Analysis, B.Sc. Engineering (Water Resource Engineering), B.Sc.(Agri.) Agroecosystem Management or B.Sc.(Env.) Geography majors with demonstrated financial need. Preference will be given to a student who resides in a member municipality of the Credit Valley Authority Foundation.

Amount: 1 award of $500

David R. Leach Memorial Bursary [I3534]

Provided in memory of David R. Leach by his family, with the assistance of the Ontario government’s OSOTF program. David entered O.A.C. in 1969 as a member of O.A.C. ’73 and graduated with a B.Sc. in Agriculture in 1974. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services and a letter from CSD confirming physical disability by October 7. ACCESS AWARD

Donor(s): Mrs Deborah Leach-Sartor with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): O.A.C. undergraduate degree or diploma student who is physically disabled as determined by the Centre for students with Disabilities, has satisfactory academic standing and who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $750

Donald P. Watson Bursaries in Horticultural Science [I4501]

Established by the estate of Donald P. Watson, O.A.C. ’34, with the assistance of the Ontario government’s OSOTF program. Preference will be given to students in BLA and the CHATS major in the BSc(Agr) degree program. Apply to Student Financial Services by October 7 and include a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): The estate of Dr. Donald P. Watson with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students registered in BLA program, the BSc(Env) program, the Agriculture, CHATS, Organic Agriculture majors of the BSc(Agr) program, or the Plant Science major of the BSc program who have completed a minimum of 10.0 credits and who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 3 awards of $2,000

Elizabeth Burton Bursaries [I3503]

Mrs. Elizabeth Burton, with the assistance of the Ontario government’s OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: Several awards of varying amounts

Class of O.A.C. ’33 Bursaries [I3531]

Established by the class of O.A.C. ’33 on the occasion of their 65th Anniversary, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

Donor(s): Class of 1933 (in honour of the late Prof, W.J. Squirell) with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 3 awards of $500

Class of O.A.C. ’36 Bursaries [I3501]

Established by the Class of O.A.C. ’36 with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD

Donor(s): Class of 1936 with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): An O.A.C. degree student enrolled in any degree program who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $900
George and Margaret J. Miles Memorial Bursary [I3544]
Established by the family to honour the memory of the parents, George and Margaret J. Miles, life long supporters of education. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter describing involvement in extra-curricular activities to Student Financial Services by October 7. ACCESS AWARD
Donor(s): Established by the Miles Family with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): All undergraduate arts and social science students with demonstrated financial need who are in or beyond semester 3 and have at least a 75% cumulative average in all courses completed to date are eligible to apply. Preference will be given to students who participate and provide leadership in extra-curricular or community activities (examples include student government, charitable organization, volunteer work, Big Brothers/Sisters, contributions to school and/or community, etc.). Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Gryphon Investment Council Bursaries [I3513]
Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,500

Guelph Compassionate Health and Dental Bursary [I3061]
This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph's mandatory Student Health Plan, University of Guelph's Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.
Donor(s): Student Health and Dental Plan Reserve
Qualification(s): Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student's academic progress.
Amount: Several varies to a maximum $1,500

Guelph Student Assistance ACCESS Bursaries [I3556]
These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. ACCESS AWARD
Donor(s): Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: Several awards of varying amounts up to $1,000

Guelph Student Assistance Program [I3056]
These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. ACCESS AWARD
Donor(s): Undergraduate Students
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need.
Amount: Several awards of varying amounts up to $1,000

Gwen Karr Memorial Bursary [I3010]
Mr. T.K.C. Karr, O.A.C. ’32, has provided an endowed fund to assist students in a degree or diploma program of the Ontario Agricultural College. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
Donor(s): Mr. T.K.C. Karr, O.A.C. ’32
Qualification(s): O.A.C. students with demonstrated financial need.
Amount: Several varies

Helen Mahon Memorial Bursary [I3063]
Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.
Donor(s): Family and Friends of Helen Mahon
Qualification(s): Students registered in any program who come from a family where one parent is deceased.
Amount: 1 award of $500

Howard and Myrtle Rogers Bursaries [I3537]
Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 10 up to $2,000

International Emergency Medical Aid Assistance [I3059]
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.
Donor(s): University of Guelph
Qualification(s): Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.
Amount: Several awards of varying amounts

International Student Bursaries [I3009]
Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.
Donor(s): Mrs. Norma L. Valeriote
Qualification(s): Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.
Amount: Several of varying amounts
Irvine and Grace Black Memorial Bursary [I3051]
Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years; and Grace was active in the Women’s Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women’s Institute by October 7.

Donor(s): Family and friends of Irvine and Grace Black
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women’s Institute.
Amount: 1 award of $500

Mary I. Whitelock Bursaries [I3524]
Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government’s OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 13 awards of $2,000

Murray McEwen OAC Safe Water Bursary [I3573]
Selection will be based on the highest financial need. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form and a letter indicating which of the listed courses have been completed. ACCESS AWARD

Donor(s): Murray McEwen with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any major offered by OAC who have completed any two of the following courses: ENVS*3150 (Aquatic Systems), ENVS*3190 (Environmental Water Chemistry), ENVS*3290 (Waterborne Disease Ecology), ENVS*3080 (Soil and Water Conservation) and ENVS*3060 (Groundwater) with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 2 awards of $1,000

John & Margaret Van Loon Family Bursary in Science [I3549]
Established on behalf of the Van Loon Family in honour of parents John & Margaret Van Loon. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): Mr. Paul Van Loon and Mrs. Lauralene Van Loon
Qualification(s): Students registered in any program in the College of Biological Science or the College of Physical & Engineering Science who have completed a minimum of 2.5 credits. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Leroux Bursaries [I3535]
Established by Mr. Hector Leroux, O.A.C.’44, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): Mr. J.H. Leroux with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. degree students in the B.Sc.(Agr.), B.Sc., B.Com., or B.Sc.Env.) programs with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 4 awards of $1,000

Marie Hardacre Bursary [I3548]
Established by Mrs. A. Marie Hardacre, MAC DHE 1930 for students in CSAHS with a preference to female students registered in the Department of Family Relations and Applied Nutrition. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Mrs. A. Marie Hardacre with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any academic program in the College of Social and Applied Human Sciences with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $4,500

O.A.C. ‘38 Lloyd Minshall Bursaries [I3529]
Established by O.A.C. ‘38 Alumni, with the assistance of the Ontario government’s OSOTF program, to recognize the many contributions of Lloyd Minshall to his classmates and to O.A.C. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): O.A.C. ‘38 Alumni with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students with demonstrated financial need in semesters 5, 6, 7 or 8. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 4 awards of $1,800

O.A.C. ‘55 Access Bursaries [I3517]
Provided by the class of O.A.C. ’55 with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): O.A.C. Class of ’55 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students at any semester level in an O.A.C. degree program or students enrolled in the B.ENG. program with demonstrated financial need and a 60% minimum cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statement on Awards).
Amount: 6 awards of $500
O.A.C. '57 Bursaries [I3518]
Provided by the Class of O.A.C. '57 with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** O.A.C. '57 with the O.A.C. Alumni Foundation, with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** O.A.C. undergraduate degree students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 5 awards of $1,000

O.A.C. Alumni Foundation Access Bursaries [I3533]
Provided by the O.A.C. Alumni Foundation, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** O.A.C. Alumni Foundation with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** O.A.C. undergraduate students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 3 awards of $500

Ontario Co-operatives R.P. Forshaw Bursary [I3013]
The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.

**Donor(s):** The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw

**Qualification(s):** Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.

**Amount:** 1 award of $400

Ontario Federation of Agriculture Bursaries [I3520]
Provided by the Ontario Federation of Agriculture and the O.A.C. Alumni Foundation with the assistance of the Ontario government’s OSOTF program. Apply with a letter indicating 4H and/or rural community involvement and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. To be considered for this award you must indicate it on our N.A.F. and include a statement outlining your extracurricular activities.

**Donor(s):** Ontario Federation of Agriculture with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** O.A.C. students with demonstrated financial need enrolled in the B.Sc.(Agr.), B.Com., B.Sc. or B.Sc.(Env.) programs. Preference will be given to students from farm families who have participated in 4H and/or rural community activities. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 12 awards of $500

Ontario Grape Growers Bursary [I3033]
Offered by the Ontario Grape Growers Action Committee. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** The Ontario Grape Growers Action Committee

**Qualification(s):** Students with good academic standing in semesters 3 to 6 of a degree program or semesters 3 to 4 of a diploma program administered by O.A.C., and demonstrated need of financial assistance.

**Amount:** Several of various amounts

Robert Auger Humanitarian Bursary [I3058]
This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.

**Donor(s):** Office of Registrarial Services

**Qualification(s):** Students registered in a degree program.

**Amount:** Several grocery vouchers or book vouchers

Ron Scriver Memorial Bursary [I3547]
Established in memory of Mr. Ron Scriver (1946 - 2005) C.P.E.S. B.A. ’76, to honour his outstanding 32-year career with the Ontario Universities’ Application Centre and his extensive involvement with colleagues throughout the University system. Preference will be given to students registered in the Bachelor of Computing Science Program. Apply with a Financial Need Assessment Form to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Family and Friends of Ron Scriver with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in any program offered by C.P.E.S. with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $1,500

Scotiabank Bursaries [I3532]
Established by Scotiabank, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

Shirley Endean Bursaries [I3570]
These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards of varying amounts

T.K. Warley Bursaries [I3510]
Established by O.A.C. Alumni Association, with the assistance of the Ontario government's OSOTF program, to recognize Professor T.K. Warley's significant contribution to the O.A.C. Alumni Foundation and to students through teaching and promotion/development of “Experience Agriculture”. A degree student may receive this bursary twice. Apply by letter outlining extracurricular involvement and a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7.

**Donor(s):** O.A.C. Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need who are in semester 5 to 8 of any degree program within O.A.C. A minimum 65% is required, as is participation in student activities, governance, and/or college affairs. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,000

University of Guelph Access Bursaries [I3522]
Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

**Donor(s):** Alumni and Friend of the University of Guelph with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards of $500, Several awards of $2,000
### University of Guelph Alumni Association Access Bursaries [I3523]

Established by the University of Guelph Alumni Association, with the assistance of the University of Guelph’s OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSL). Amount: Several awards of various amounts to a maximum of $1,000

### University Guelph Child Care Bursaries [I3053]

In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph

**Qualification(s):** Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need. Amount: Several awards of up to $2,000

### University of Guelph International Bursary [I3048]

The University of Guelph offers bursaries to International undergraduate students that are faced with unexpected or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

**Donor(s):** University of Guelph

**Qualification(s):** Any International student registered in a degree program at the University of Guelph with a minimum registration of 15.0 course credits. Amount: Several varies

### University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph

**Qualification(s):** Ontario students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need. Amount: Several awards ranging in value from $100 to $4,000

### University of Guelph Undergraduate In-Course Bursaries (NON OSAP TR) [I3047]

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph

**Qualification(s):** Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need. Amount: Several awards to a maximum of $500

### University Police Bursaries [I3019]

The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** The University Police

**Qualification(s):** Full-time undergraduate with demonstrated financial need. Amount: Several of various amounts

### University Student Assistance Program [I3087]

These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

**Donor(s):** University of Guelph

**Qualification(s):** Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSL). Amount: Several awards of various amounts to a maximum of $1,000

### In-course Travel Grants

#### A.E. Wardlaw Travel Grant [T0665]

Established by Mrs. Alta E. Wardlaw (nee Chapman), a 1912 student at Macdonald Institute. Selection will be based on the cost of the travel and the benefit it will bring to the student's program of study. Preference will be given to the student attending a professional conference/meeting. Apply by May 15 to the CSAHS Awards Committee by completing the CSAHS Awards Application and attach a letter describing the travel, the benefit it will bring to your program and an overall travel budget. This award can only be held once.

**Donor(s):** Mrs. Alta Ethelwyn Wardlaw

**Qualification(s):** Students registered in the College of Social and Applied Human Sciences who have completed up to 15.0 credits and who will be travelling for academic reasons, or to attend an appropriate professional conference/meeting. Amount: 1 award of $1,000

#### A.W. Archibald Memorial Travel Grant [T4541]

Mr. A.W. Archibald, O.A.C. ’33 with the assistance of the Ontario government’s OSOTF program, provide these travel grants to students who plan to travel for a semester abroad or to attend other schools outside of Canada for workshops or other academic related purposes. Apply to Student Financial Services with a letter outlining proposed travel plans and academic purpose accompanied by a letter of support from a faculty member or student advisor, and a Need-Based Travel Grant application by October 7. ACCESS AWARD.

**Donor(s):** A.W. Archibald, O.A.C. ’33 with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Undergraduate students in any O.A.C. program with demonstrated financial need. Preference will be given to students applying to Student Financial Services by June 30 with a “Travel Grant Need-based Application.” Award is subject to the availability of Aeroplan miles and may not be available every year.

**Amount:** Several awards up to $1000

#### Aeroplan International Travel Grant [T0604]

Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a “Travel Grant Need-based Application”. Preference will be given to students participating in the semester abroad or academic exchanges. Award is subject to the availability of Aeroplan miles and may not be available every year.

**Donor(s):** Aeroplan

**Qualification(s):** Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.

**Amount:** 1 or more awards of a plane ticket

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**Last Revision:** Oct. 19, 2012
Arthur D. Latornell Undergraduate Travel Grants [T0058]
An endowment fund established in memory of Arthur D. Latornell, O.A.C. ’50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.

**Donor(s):** The Estate of Arthur D. Latornell  
**Qualification(s):** Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.

**Amount:** several up to a maximum of $1000

Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]
The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government’s OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.

**Donor(s):** Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Undergraduate degree students in either the second or third year of study. Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a "Letter of Permission" prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** A number of awards to a maximum of $7,500

Class of OAC ’59 Experiential Learning Travel Grant [T0702]
The Class of OAC ’59, in recognition of their 50th anniversary since graduation, has established this award to assist students participating in meetings, conferences, seminars, tradeshows, course field trips, semesters abroad, etc. Selection will be based on relevance of intended travel and benefits to program of study. Apply by April 1st to the OAC Awards Office with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs and expected benefits. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be beneficial.

**Donor(s):** OAC ’59  
**Qualification(s):** Students registered in any undergraduate degree program of OAC who have completed a minimum 8.0 credits or students registered in the Diploma in Agriculture or Horticulture programs at Alfred, Kemptville or Ridgeway campuses or Turfgrass Diploma at the Guelph campus who have completed 6.0 credits are eligible. Students must have a 70% cumulative average and must have travel related to their studies to be considered.

**Amount:** Several awards of up to $15,000

D & G Hart Travel Grant [T0601]
Douglas H., O.A.C. 1922, and George M., O.A.C. 1927, were long time supports of O.A.C. and believed greatly in the benefits that travel provided to an individual's personal and professional growth. Apply to the O.A.C. Awards Office by May 15 with a letter of no more than two pages, outlining the intended study program/conference/or other type of travel opportunity, the reasons for choosing the travel program and the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. This award cannot be held with any other University of Guelph Travel Grant.

**Donor(s):** Family of Douglas and George Hart  
**Qualification(s):** Students currently enrolled in any O.A.C. program with a minimum 70% cumulative average who intend to participate in travel related to course study.

**Amount:** 1 award of up to awards of $750

Dr. Frederick Kozak and Lorna Hruby Travel Grant [T0784]
Established by the parents of a BAH graduate in 2008 and MA in 2011. Selection will be based on level of commitment to international development and plan for engagement. There are two distinct application deadlines - April 15 for Summer/Fall; and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, this award can be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the planned international activity including local engagement, and commitment to international development. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

**Donor(s):** Drs. Frederick Kozak and Lorna Hruby  
**Qualification(s):** Full-time students registered in any major offered by CSAHS who have completed at least 10.0 credits with a minimum cumulative average of 70%, and who demonstrate the desire and aptitude to help build capacity and address social issues in international communities and are participating in any course-related international travel.

**Amount:** 1 award of $5,000

Geography Field Trip Travel Grant [T0584]
Established in honour of the retirement of Dr. G.T. Bloomfield, former faculty member and Chair of the department of Geography from 1977 to 1982. Apply to the Chair of the Geography department by May 15 with a one-page essay outlining the benefits and expectations of the field course to their career as a geographer and one letter of reference from a geography professor.

**Donor(s):** Alumni, Colleagues, and Friends of Dr. G.T. Bloomfield  
**Qualification(s):** Full-time students enrolled in one of the honours program (B.A.H.; B.Sc.(ESS); B.Sc.(Env)) offered by the Department of Geography who have completed a minimum of 12.5 credits and have a cumulative average of at least 70% at the time of registration for GEOG*4690.

**Amount:** 1 award of $400

H.C. Mason Travel Scholarships [T0598]
In memory of the late H.C. Mason, a travel fund, within the O.A.C. Teaching Trust, for O.A.C. students who has been established by F.W. Bray of Hamilton. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the travel program, with the submission of a letter of no more than two pages outlining the intended study program/conference/or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant in not tenable with any other University of Guelph travel grants.

**Donor(s):** Mr. F.W. Bray  
**Qualification(s):** Student who are currently registered in an Ontario Agricultural College undergraduate program with a minimum of 70% cumulative average who intend to participate in travel related to course study

**Amount:** various awards up to $1,500

J. Ross Cavers Study Abroad Scholarship [T0051]
O.A.C. ’53 provides these scholarships in memory of J. Ross Cavers, their honorary year member, professor emeritus, and respected poultry scientist. Apply by letter outlining the intended semester abroad program, the reasons for choosing the program and the perceived value of participation along with a brief summary of related extracurricular activities to the O.A.C. Awards Office by May 15. A letter of recommendation will also be considered as part of the application package. Application should be made a maximum of two semesters prior to participation in the intended travel program.

**Donor(s):** Class of O.A.C. ’53  
**Qualification(s):** Undergraduate student in O.A.C. planning to participate in a semester abroad program with a minimum 75% cumulative average. Preference will be given to a candidate who has exhibited qualities of leadership.

**Amount:** 2 awards of $2,000

J.D. Cunningham Travel Grant [T0605]
Established on honour of the J.D. Cunningham, a professor of microbiology at the University of Guelph. Apply by May 15 to the O.A.C. Awards Office with a letter of no more than two pages outlining the intended study program, conference, or other type of learning opportunity. Include the reason for choosing the program and describe the anticipated benefits of participation. Letters of recommendation will be considered as part of the application package. Upon return from the travel opportunity, the student must be willing to present a report to classmates and/or faculty and/or the Ontario Food Protection Association.

**Donor(s):** Ontario Food Protection Association  
**Qualification(s):** Students currently enrolled in any O.A.C. program with a minimum cumulative average of 75%. Preference will be given to students in Food Science specializing in Microbiology.

**Amount:** 1 award of $2,000
Jeff and Donna Lozon Travel Grant [T0772]

Selection will be based on budgetary considerations and academic standing. There are two distinct application deadlines: April 15 for Summer/Fall, and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, this award can be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

Donor(s): Jeff Lozon (CSS BA ’76) and Donna Doherty Lozon
Qualification(s): Full-time students registered in any degree program in CSAHS who are participating in any course-related international travel.
Amount: 2 awards of $1,000

Kenneth W. Knox Undergraduate Leadership Travel Grant [T4403]

Established to honour and recognize Kenneth Knox, Kemptville ’67, OAC ’72, for his passionate and innovative career. Selection will be based on relevance of intended travel and benefits to program of study, demonstrated leadership contributions and financial need. Apply by October 7 to Student Financial Services with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs, expected benefits, demonstrated leadership as evidenced by participation in extracurricular activities or volunteer services, along with a completed University of Guelph Financial Need Assessment Form. A reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study would be considered. ACCESS AWARD

Donor(s): Friends and Family of Kenneth Knox with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students registered in any program offered by OAC who have demonstrated leadership contributions, have completed a minimum of 10.0 credits with a minimum 70% cumulative average and plan to participate in an experiential learning opportunity related to their field of study, such as: semester abroad, exchange program, etc. and have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $2,000

Kincardine Shippers Association Travel Grant [T0676]

Established by the members of the Kincardine Shippers Association to assist students in pursuit of their educational goals. Selection will be based on the stated travel benefits, leadership potential and financial need considered. Preference will be given to students from the Municipality of Kincardine and the Township of Huron-Kinloss. Apply with a letter of no more than two pages outlining the intended study program or type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation, along with a Need-Based Travel grant application by October 7 to Student Financial Services. A letter of recommendation will be considered as part of the application.

Donor(s): Kincardine Shippers Association
Qualification(s): Students registered in any program offered by O.A.C. with a minimum 70% cumulative average who plan to participate in travel related to course study.
Amount: 1 award of $1,000

Kiyoko Miyaniishi International Travel Grant [T0742]

Established by Dr. Kiyoko Miyaniishi, a retired faculty member from the Department of Geography, and Dr. Edward A Johnson. Selection will be based on budgetary considerations and academic standing. There are two distinct application deadlines: April 1 for Summer/Fall, and October 1 for Winter/Summer. If a qualified candidate is not selected from the April applicant pool, both awards could be awarded the following fall. Application for funding should be for either of the two semesters following application. To apply, forward a letter to the CSAHS Awards Committee by either application deadline with a description of the international activity. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

Donor(s): Dr. Kiyoko Miyaniishi and Dr. Edward A Johnson
Qualification(s): Full-time students registered in any degree program in CSAHS with a minimum 70% cumulative average who are participating in any course-related international travel.
Amount: 2 awards of $3,500

Massey Fund Travel Scholarships [T0417]

Travel scholarships available from the Massey Fund. Not tenable with other awards that support travel costs. Apply by letter outlining the study abroad/exchange program and travel costs to the O.A.C. Dean’s Office by May 15.

Donor(s): O.A.C. Awards Committee
Qualification(s): O.A.C. undergraduate students who are participating in an approved study abroad or exchange program outside Canada. Academic standing in the last two full-time semesters or equivalent will be used to determine recipients.
Amount: 6 awards of up to $2,000 each

Mathematics & Statistics Fourth Year Travel Grants [T0624]

Apply by submitting a letter with a brief description of the conference and a detailed budget to the Mathematics and Statistics Undergraduate Awards Committee at least one month prior to the conference. Preference will be given to students presenting a paper or poster or returning to pursue graduate studies in the department. A student may be considered for this grant once only.

Donor(s): The Department of Mathematics and Statistics
Qualification(s): Registered students in year 4 (i.e. who have completed a minimum of 15.0 credits) with a cumulative average of at least 75%, enrolled in any major offered by the Depart. of Math and Stats, and who are planning to attend a conference related to program of study.
Amount: Several grants of up to $250

O.A.C. ’05 Excellence Travel Grant [T0601]

In honour of the O.A.C. Class of 1905 and with the support of the O.A.C. Class of 2005. Apply to the O.A.C. Awards Office by May 15 with the submission of a letter of no longer than two pages outlining the intended study program/conference or other type of learning opportunity, reasons for choosing the program and the anticipated benefits of participation. A letter of recommendation will be considered as part of the application package. This grant is not tenable with other University of Guelph travel grants.

Donor(s): Class of OAC 1905 and the Class of OAC 2005
Qualification(s): Student who are currently registered in an Ontario Agricultural College undergraduate degree program and wish to travel to expand their educational opportunities.
Amount: 1 award of $300

O.A.C. ’47 Travel Bursaries [T3505]

Provided by O.A.C.’47 on the occasion of its 50th anniversary and with the assistance of the Ontario government’s OSOTF program. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure by October 1, for winter travel, February 1 for summer travel or June 1 for fall travel.

Donor(s): O.A.C. ’47 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): O.A.C. undergraduate students who have demonstrated financial need and who are participating in a study abroad program for academic credit at an approved institution. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: Several awards of various amounts

O.A.C. ’54 International Study Scholarship [T0586]

Established in memory of Beth Duncan to support students participating in an exchange program, study abroad semester, or a field trip course. Submit a letter (of not more than two pages) outlining the intended international study program, reasons for choosing the program and the anticipated benefits of participation. Letters should also include a brief summary of extracurricular and student related activities. Letters of reference will be considered. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the program.

Donor(s): Class of O.A.C. ’54
Qualification(s): Currently registered students in O.A.C. who are Canadian citizens or permanent residents with a minimum 75% cumulative program average who intend to participate in an exchange program, study abroad, or field trip course.
Amount: 2 awards of $1,450
### IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OURA Innovation Travel Grant [T4393]</strong></td>
<td></td>
<td></td>
<td><strong>Ontario University Registrars’ Association (OURA) with matching funding through the Ontario Trust for Student Support program</strong></td>
</tr>
<tr>
<td><strong>Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]</strong></td>
<td>1 award of $350</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OSOTE award (see General Statements on Awards).</td>
<td><strong>The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund</strong></td>
</tr>
<tr>
<td><strong>Robb Travel Grants [T3028]</strong></td>
<td>Several awards of varying amounts to a maximum of $1,000</td>
<td>O.A.C. students who are attending another university on a Letter of Permission.</td>
<td><strong>The Estate of Martha Robb</strong></td>
</tr>
<tr>
<td><strong>Roderick Long International Travel Grant [T0360]</strong></td>
<td></td>
<td></td>
<td><strong>Mr. Roderick W. Long</strong></td>
</tr>
<tr>
<td><strong>The Jean Rich Foundation Travel Grant [T0730]</strong></td>
<td>2 awards of $2,500</td>
<td>Full-time students registered in the College of Social and Applied Human Sciences who are participating in international travel activities in developing countries as part of a course of study.</td>
<td><strong>The Jean Rich Foundation</strong></td>
</tr>
</tbody>
</table>

### University of Guelph Travel Scholarships [T0421]

The University of Guelph, through the sale of Guelph London House, has established an endowed fund to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.

<table>
<thead>
<tr>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Several awards up to $1,500</td>
<td>Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.</td>
<td><strong>University of Guelph</strong></td>
</tr>
</tbody>
</table>

**Last Revision: Oct. 19, 2012**

2012-2013 Undergraduate Calendar
### Bachelor of Science in Technology

Please refer to the General Statement on Awards for:

- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

#### Entrance Scholarships

**1961-1964 Redmen Football Scholarships**

Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipients will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

- **Donor(s):** Dr. Robert Keith (c/o 1961-1964 Football Committee)
- **Qualification(s):** Entering student-athlete who is a member of the Gryphon Football team with a minimum 80% admission average.
- **Amount:** several scholarships ranging from $1500 to $3500

**2003-2009 Men’s Cross Country and Track and Field Legacy Scholarship**

Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

- **Donor(s):** Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
- **Qualification(s):** Current member of the Gryphon Football team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
- **Amount:** 1 award of $1,500

**Al Singleton Hockey Scholarships**

The recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

- **Donor(s):** 1957-58 OA-VC Redmen Championship Hockey Team
- **Qualification(s):** Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
- **Amount:** Numerous awards ranging in value from $750 to $3,500

**Allen Keele Track and Field Scholarship**

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

- **Donor(s):** Allen Keele
- **Qualification(s):** Entering student-athlete who is a member of the Varsity track and field team and who has achieved a minimum 80% admission average.
- **Amount:** 1 award of $1,350

**Angelo and Frank Agro Undergraduate Scholarship**

These scholarships are provided by the Agro Scholarship Fund. Apply, by April 15, to Student Financial Services, with a one to two-page, point-form listing of 4-H activities. This list should describe current or past activities within 4H and the position titles/names, if applicable. Attach a reference letter from a 4H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4H clubs. The committee will consider any appropriate elements, such as the length of membership in 4H, leadership roles in support of 4H, creativity in 4H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4H competitions. Recipients must maintain full-time studies and at least a 70% program average each year for continuation of the award.

- **Donor(s):** The Frank Agro Estate
- **Qualification(s):** Full-time students entering semester 1 who have attained a minimum 75% admission average and completion of a minimum of 10 - 4H projects.
- **Amount:** 8 awards of $7,000 (payable over 4 years of study)

#### Board of Governors’ Scholarships

**Barry Lee Scholarship for Agricultural Excellence**

Established to recognize Barry Lee’s 19 years of service as Councilor and his strong support of rural and agricultural activities in the region. Preference will be given first to students from the Regional Municipality of Halton. Selection will be based on highest admission average. No application is required.

- **Donor(s):** The Regional Municipality of Halton
- **Qualification(s):** Students entering any undergraduate program offered by OAC.
- **Amount:** 1 award of $1,000

**Bob & Joyce Brooks Football Scholarships**

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

- **Donor(s):** Mrs. Joyce Brooks
- **Qualification(s):** Entering student-athlete who is a member of the football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
- **Amount:** Numerous awards ranging in value from $750 to $3,500

**Dr. Rudy Florio Scholarship**

Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

- **Donor(s):** Mr. Rudy Florio
- **Qualification(s):** Entering student-athlete who is a member of a varsity football team and registered in an undergraduate program and who has achieved a minimum 80% admission average.
- **Amount:** 1 award of $3,500

**December 6th Memorial Scholarship**

This scholarship, established by the Faculty Association, is awarded in memory of the fourteen women murdered in December 1989 at Ecole Polytechnique and is intended to attract women to a profession that is largely comprised of men. The recipient will be selected on the basis of academic performance. For continued eligibility beyond semester 1, the student must maintain a minimum of 70% cumulative average. Demonstrated financial need may also be considered. Application is not required.

- **Donor(s):** University of Guelph Faculty Association
- **Qualification(s):** Female student who is a Canadian Citizen or Permanent resident of Canada enrolled in the College of Physical and Engineering Science.
- **Amount:** 1 award of $2,250 ($750 in each of semesters 1, 3 and 5)

**Dr. Jack Britney Scholarship**

Established in memory of Dr. Jack Britney, a graduate of ‘57A and O.A.C. ’60 and former faculty member in the former School of Food Agriculture and Resource Economics and Extension Education. Preference will be given to Graduates of the Diploma in Agriculture program. Apply by April 15 with a letter to the O.A.C. Awards Office on the Guelph campus.

- **Donor(s):** Friends and Associates
- **Qualification(s):** Graduate students from a University of Guelph Diploma program with high academic achievement and entering a degree program at the University of Guelph.
- **Amount:** 1 award of $1,000

**Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship**

Coaches will nominate student recipients to the Athletics Awards Committee. The recipient will be selected based on demonstrated leadership abilities and contributions to the team. No application is necessary.

- **Donor(s):** Various Donors
- **Qualification(s):** Entering student-athlete who is a member of the Varsity Cross / Country or Track and Field Team and who has achieved a minimum 80% admission average.
- **Amount:** 1 award of $1,350
### Earl B. MacNaughton Entrance Scholarships [E0172]

Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Emphasis during selection will be given to academic achievement in high school science and mathematics. Application is not required.

**Donor(s):** Earl B. MacNaughton  
**Qualification(s):** Students of high academic standing, entering an honours program in the College of Physical and Engineering Science.  
**Amount:** 4 awards of $1,000

### Elaine Scott-Thomas Track and Field Scholarship [E0706]

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletics Awards Committee. Application is not necessary.

**Donor(s):** Dave Scott-Thomas  
**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $1,500

### Embry Family Scholarship [E0736]

Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Mr. John Embry  
**Qualification(s):** Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $3,500

### George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** George Ames  
**Qualification(s):** Entering student-athlete who is a member of the Varsity Cross Country team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $3,500

### Gerd and Christel Baldau Men's Basketball Scholarship [E0639]

Established by Christian Baldau, BSc. ’95, in honour of his parents. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Dr. Christian Baldau  
**Qualification(s):** Student-athlete entering the BSc program who is a member of the varsity Men’s Basketball team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $3,500

### Gordon W. Innes Scholarship [E0140]

Application is not required.

**Donor(s):** Gordon W. 'Sparky' Innes Scholarship Fund Committee of the Woodstock Agricultural Society.  
**Qualification(s):** Student entering any degree program from Oxford County with the highest admission average.  
**Amount:** 1 award of $1,400

### Gryphon Athletic Scholarships [E0631]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** University of Guelph  
**Qualification(s):** Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.  
**Amount:** various awards of $750 to $3,500

### Hardy International Student Scholarship [E0659]

Selection is based on the assessment of the student’s admission application and preference is given in the following order: students from Haiti; students from Africa; then any other international student. Application is not required.

**Donor(s):** Mrs. Marion Hardy  
**Qualification(s):** Full-time international students (defined as paying the international student tuition and fees) entering any degree program.  
**Amount:** 1 award of $3,000

### Honours Physics Scholarship [E0132]

Several of these awards will be offered on a competitive basis to students entering with the highest admission averages. The number of scholarship offers is dependent on the cohort pool of applicants. Application is not required.

**Donor(s):** Department of Physics  
**Qualification(s):** Students entering the first semester level of the B.Sc. program or the B.Sc. (Tech.) program with a minimum 85.0% admission average and a declared intention of pursuing a major in Physics, Physics and Technology, Biophysics, Chemical Physics, or Theoretical Physics, or a Co-op stream of these programs.  
**Amount:** Several awards of $4,000

### International Student Entrance Scholarships [E0408]

In support of the University’s strategic direction of internationalism, entrance scholarships are available each Fall semester to the top international students entering their first semester of an undergraduate degree program at the University of Guelph. Applicants must submit all relevant documentation for admission consideration by March 1 to be considered for a scholarship. These scholarships are awarded on a competitive basis. Application is not required.

**Donor(s):** University of Guelph  
**Qualification(s):** Students on a “student visa” entering an undergraduate degree program at the University of Guelph with a record of high academic achievement and extracurricular involvement, and studying full-time. This award is offered for the first year of study.  
**Amount:** Several awards ranging in value from $500 - $6,000

### J.D. MacLachlan Scholarship [E0170]

Provided by the family of J.D. MacLachlan. The recipient will be the student entering with the highest admission average. Application is not required.

**Donor(s):** The J.D. MacLachlan Trust  
**Qualification(s):** Students entering any degree program at the University of Guelph.  
**Amount:** 1 award of $1,500
### IX. Scholarships and Other Awards, Bachelor of Science in Technology

#### Jack and Lillian MacDonald Scholarship [E0379]
Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald  
**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).  
**Amount:** 1 award of $900

#### Kelly Bertrand Cross Country Scholarship [E0684]
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand  
**Qualification(s):** Entering student-athletes who are members of the Varsity Cross Country Team and who have achieved a minimum 80% admission average.  
**Amount:** 1 award of $2,000

#### Larry Pearson Men’s Volleyball Athletic Scholarships [E0618]
Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Larry Pearson  
**Qualification(s):** Entering student-athlete who is a member of the men’s varsity volleyball team and who has achieved a minimum 80% admission average.  
**Amount:** several awards up to $3,500

#### Latifpoor-Keparoutis Family Varsity Swim Team Scholarship [E0732]
Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

**Donor(s):** Maryam Latifpoor-Keparoutis  
**Qualification(s):** Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $1,200

#### Lincoln Alexander Scholarships [E0689]
Established in 2001 in honour of Lincoln Alexander, Chancellor Emeritus of the University of Guelph and former Lieutenant Governor of Ontario, on his 80th birthday. They are intended to enhance student diversity and are one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This award cannot be held with the President’s Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

**Donor(s):** Many Donors  
**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and communities. In addition, students must be: Aboriginal; or a person with a disability; or a member of a racial minority.  
**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

#### Lloyd Dorr Memorial Hockey Scholarship [E0708]
Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Family and Friends of the late Lloyd Dorr  
**Qualification(s):** Entering student-athlete who is a member of the men’s varsity hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $1,000

#### McArthur-Humphries Scholarship [E0183]
An equal number of awards are available to students from each county. In the case of insufficient eligible applicants from one county, the awards will be given to eligible applicants from the other county. These scholarships are awarded to students with the highest admission averages. Application is not required.

**Donor(s):** Wilhelmina McArthur-Humphries Trust Fund  
**Qualification(s):** Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.  
**Amount:** 12 awards of $1,000

#### Men’s Soccer Alumni Scholarship [E0771]
Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)  
**Qualification(s):** Entering student-athlete who is a member of the varsity Men’s Soccer team with a minimum 80% admission average.  
**Amount:** several awards ranging in value from $1,000 to $3,500

#### Moulton-Hutchinson Family Track and Field Scholarship [E0705]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** The Moulton and Hutchinson Families  
**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.  
**Amount:** 1 award of $3,500

#### Pamela Wallin Chancellor’s Scholarships [E0688]
Established in 2009 in honour of Pamela Wallin, Chancellor of the University of Guelph and considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.

**Donor(s):** University of Guelph  
**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have taken a leadership role in activities that demonstrate an interest in international relations and development and who indicate an ongoing desire to gain a broader subject knowledge through course work and/or engagement in the discipline and demonstrate the potential to become leaders in society.  
**Amount:** 2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)

#### President’s & Chancellor’s Finalists Scholarship [E0651]
Established in recognition of demonstrated academic excellence, leadership ability and participation in the President's and Chancellor’s Scholarship interviews. These scholarships will be awarded to those students who were not selected for a President's or Chancellor's Scholarship and register in any degree program in the fall semester of the same scholarship competition year. Application is not required.

**Donor(s):** Provost, and Vice-President Academic of the University of Guelph  
**Qualification(s):** Students entering any degree program who have been interviewed for consideration for a President's or Chancellor's Scholarship.  
**Amount:** several awards of $500
President’s Scholarship [E0238]

Established in 1987 in honour of their donors or distinguished members of the University and are considered one of the most prestigious entrance awards at the University of Guelph. Selection will be made on demonstrated superior leadership ability and potential as evidenced through positions held, extra-curricular activities, involvements in high school and communities and reference support. Students apply by January 25 by completing the online application. Short-listed candidates will be invited to campus for an interview. This scholarship cannot be held with the Lincoln Alexander Scholarships, the Pamela Wallin Chancellor’s Scholarships or the Board of Governors’ Scholarships.

**Donor(s):** President’s Scholarships have been named in honour of the following people and/or donors:
- Cecil H. Franklin and Ingrid Franklin
- Charles S. Humphrey
- In memory of Charles S. Humphrey, a former President of Hart Chemical Company Canada Ltd. and long-time friend, the University has named one of these twelve prestigious entrance awards to recognize his financial contribution through his estate to the President’s Entrance Scholarship program.
- Jack R. Longstaffe
- The University of Guelph has named one of these twelve prestigious entrance awards in memory of Jack R. Longstaffe to recognize his financial contribution through his estate to the President’s Entrance Scholarship program.
- Burton C. Matthews
- The University of Guelph has named one of these twelve prestigious entrance awards in honour of Burton C. Matthews to recognize his insight and leadership in establishing the President’s Entrance Scholarship program.
- Kathleen and Frederick Metcalf
- Mr. and Mrs. F.T. Metcalf of Guelph have endowed this award. After a distinguished career in cable TV, broadcasting and publishing, the late Mr. Metcalf retired as President of Maclean Hunter Ltd. and Chairman of the Board of Maclean Hunter Cable Ltd. He was Honorary Chairman of Maclean Hunter Cable Ltd. and a member of the University of Guelph Heritage Board (1996).
- Rol-land Farms Limited
- Two of the scholarships are endowed by the four shareholders of Rol-land Farms Limited of Blenheim, Ontario, Hank, Peter, Arthur and Eric Vander Pol and their families. The Vander Pol families are generous supporters of a number of University projects and programs.
- Lillian Stewart Usher
- The University of Guelph has named one of these twelve prestigious entrance awards in honour of Lillian Stewart Usher a friend of the University to recognize her financial contribution through her estate to the President’s Entrance Scholarship program.

**Qualification(s):** Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and/or communities.

**Amount:** 8 awards of $32,000 ($6,500 annually for 4 years of study plus $6,000 stipend for summer research assistantship)

Professor Victor Matthews Track and Field Scholarships [E0707]

The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors

**Qualification(s):** Entering student-athlete who is a member of the varsity cross-country or track and field team and who has achieved a minimum 80% admission average.

**Amount:** up to 10 $300 each

Rachel Cliff Scholarship [E0790]

The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Ronald & Nancy Cliff

**Qualification(s):** Entering student-athlete who is a member of the Women’s Middle Distance Team and a distance runner who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,500

Sprung Family Men’s Basketball Scholarship [E0672]

Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Mr. Timothy Sprung

**Qualification(s):** Entering student-athlete who is a member of the Men’s basketball team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $3,500

Ted Morwick Scholarship [E0796]

Established by Alumnus Ted Morwick, BA ’70. The student with the highest admission average will be selected. This award is conditional on maintaining a 80% average in the pervious year of full time study. If a current award recipient does not meet the renewal criteria for one year, they will be given the opportunity to re-qualify. (i.e. The student recipient does not maintain 80% in their first year. They will not receive the award for their second year of school. If at the end of their second year they have raised their average back up to 80% or higher, they would receive the award for their third year.) If a student doesn’t qualify for two years in a row, they would fully lose the award, with no opportunity to re-qualify. This scholarship is not tenable with the Chancellor’s, President’s or Board of Governors Scholarships. No application is necessary.

**Donor(s):** Mr. Edward (Ted) Morwick

**Qualification(s):** Students entering any degree program in the College of Arts.

**Amount:** 1 award of $8,000 (payable over four years.)

Tom Mooney Scholarship [E0709]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors

**Qualification(s):** Entering student-athlete who is a member of the varsity men’s football team or men’s basketball team and registered in an undergraduate program and who has achieved a minimum 80% admission average.

**Amount:** Numerous awards ranging in value from $1,000 to $3,500

University of Guelph Entrance Scholarships [E0291]

The value of this scholarship is determined by the admission average as calculated by Admission Services and will be offered with your offer of admission to Guelph. The scholarship will be applied directly to the student’s financial account in two equal payments in the fall and winter semesters. Students must register for full-time studies to receive this award. Application is not required.

**Donor(s):** University of Guelph

**Qualification(s):** All students entering their first year of post-secondary studies for the first time with a minimum 85.0% admission average.

**Amount:** Several awards of $2,000, Several awards of $3,000

University of Guelph Faculty Association Scholarship [E0292]

Award is payable at $750 per annum in the student’s 1st, 3rd, and 5th semester levels, provided a cumulative average of at least a 70% is maintained. To receive the final payment, the recipient would normally be entering the 5th semester level within a period of 3 calendar years from the date of admission. Awarded to the student with the highest admission average. Application is not required.

**Donor(s):** University of Guelph Faculty Association

**Qualification(s):** Students entering any undergraduate degree program at the University of Guelph from Wellington county.

**Amount:** 1 award of $2,250 ($750 in the 1st, 3rd, and 5th semesters)

W. Penri Morris Memorial Scholarship [E0430]

Established by the family in memory of Penri Morris, who was killed World War II action in 1944 at the age of 21. Penri grew up on the family fruit farm near Forest, Ontario. After graduating from high school, he joined the Royal Canadian Air Force and was attached to the Royal Air Force Bomber Command as a navigator at the time of this death. Awarded to the student with the highest cumulative academic performance above 75% in all courses of the last year in high school study (full-time or equivalent study). Application is not required.

**Donor(s):** Prof. Rosalina Morris

**Qualification(s):** Students entering first year of any undergraduate program from North Lambton Secondary School in Forest, Ontario, in their absence, from Lambton County, and their absence, from Ontario.

**Amount:** 1 award of $1,000

W.C. Blackwood Memorial Entrance Scholarship in Physics [E0029]

Application is not required.

**Donor(s):** Mr. B.A. Ward

**Qualification(s):** Student entering the first semester level of the B.Sc. program, who declares the intention to pursue an honours program in Physics.

**Amount:** 1 award of $550
### Walter and Halina Slabikowski Scholarship [E0766]

This scholarship was established in memory of Walter and Halina Slabikowski who sent their first generation Canadian born children to university to enrich their lives and provide them with greater opportunities. The award will be given to the student with the highest admission average. The residence deposit must be received by published deadline date. 

Submit by email to awards@registrar.uoguelph.ca your full name, student ID number and a statement attesting to your parents’ place of birth and non participation in post secondary education by April 15th.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Irene Thompson and Slabikowski Family</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s): Students entering any degree program planning to live in a Guelph campus residence whose parents immigrated to Canada and have never participated in post secondary studies.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $1,000</td>
</tr>
</tbody>
</table>

### Waterloo-Wellington Science & Engineering Fair (WWSEF) Scholarship [E0619]

Established to recognize excellence of the project submissions and encourage students to pursue university studies at the University of Guelph.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>University of Guelph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s): Gold medal winners in the Senior Entries classification (WWSEF) that are registered in year one of any degree program at the University of Guelph.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>various awards of $1,000</td>
</tr>
</tbody>
</table>

### William L. McEwen OAC '43 Men's Varsity Hockey Scholarships [E0703]

The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletics Awards Committee.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mrs. Irene McEwen</th>
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</thead>
<tbody>
<tr>
<td>Qualification(s): Entering student-athlete who is a member of the Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.</td>
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</tr>
<tr>
<td>Amount:</td>
<td>Numerous awards ranging in value from $750 to $3,500</td>
</tr>
</tbody>
</table>

### William P. Weber Football Scholarship [E0634]

Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Dr. William P. Weber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s): Entering student-athlete who is a member of the Men's Football team and achieved a minimum 80% admission average.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $2,500</td>
</tr>
</tbody>
</table>

### Entrance Scholarships with Financial Need

#### Bill Klopp Memorial Scholarship [E0150]

Priority will be given to a student from Kitchener-Waterloo Collegiate and Vocational Institute. Apply by letter, to Student Financial Services, outlining extracurricular activities and by completing the online Financial Need Assessment Form (N.A.F.) by April 15. Students should complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student).

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Ross and Mary Lou Klopp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s): Students from the cities of Kitchener or Waterloo entering a degree program at the University of Guelph with demonstrated involvement in extracurricular activities, a minimum 70% admission average and demonstrated financial need.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $500</td>
</tr>
</tbody>
</table>

#### Devine Family Scholarships [E4542]

On behalf of the Devine Family, Mr. Peter J. Devine, a current Board of Governors member, with the assistance of the Ontario government’s OTSS program, established these two awards for the purpose of diversifying the ethnicity of the student body of the University of Guelph and fostering the participation of racial minorities and disabled persons in undergraduate programs. These scholarships will be given out once every four years beginning with the first scholarship being awarded in the Fall 2007. The second scholarship will be awarded in the Fall 2008. Recipients will be selected in the Fall of 2012 and 2013, 2016 and 2017, and 2020 and 2021. Recipients of these scholarships must maintain a minimum cumulative average of 70%, a minimum course registration of 2.0 credits and continue to demonstrate financial need to receive their award payments in years 2, 3 and 4. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and complete the “Devine Family Scholarship Application”. Deadline to submit the complete application (both parts, the E.N.A.F. and the application) is April 15. Scholarship offers will be made in May. This award is not tenable with the President’s Scholarship or the Lincoln Alexander Chancellor's Scholarship, but can be held with all other entrance awards. ACCESS AWARD.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mr. Peter J. Devine with matching funding through the Ontario Trust for Student Support program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s): Students with demonstrated financial need entering any degree program with a minimum 80% admission average, who are Aboriginal, or who have a disability, or who are members of a racial minority are eligible to apply. Preference will be given to students of African-Canadian descent. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $30,000 (payable over 4 years of study)</td>
</tr>
</tbody>
</table>

#### Interhall Council Entrance Scholarship [E0636]

Established by the Interhall Council, the residence student government that programs, advocates and represents residence students to administration and Student Housing Services (www.interhall.ca), to ensure that the residence experience remains accessible to students. To apply, students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) and submit a one-page, point-form summary highlighting extra-curricular activity that demonstrates leadership ability to Student Financial Services by April 15.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Interhall Council</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s): Students entering a full-time undergraduate degree program with a minimum 85.0% admission average, residing in residence during first year on the Guelph campus with demonstrated financial need and demonstrated strong leadership ability.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>3 awards of $1,250</td>
</tr>
</tbody>
</table>

#### John Embry Family Scholarship [E4549]

Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgement Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mr. John Embry with matching funding through the Ontario Trust for Student Support program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s): Entering student-athletes who are members of an OUA varsity team and who have achieved a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $3,500</td>
</tr>
</tbody>
</table>
IX. Scholarships and Other Awards, Bachelor of Science in Technology

Kenneth O. Hammill-Blount Canada Scholarship [E4356]

Established in honour of Kenneth Osborne Hammill, a long time friend of the University and retired plant manager of Blount Canada, with the assistance of the Ontario government’s OSOTF program. Selection will be based on greatest financial need from the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships applicants who were interviewed, but not successful in the competition. Continuation of this scholarship is conditional on maintaining a minimum 77% average over the previous full-time academic year of study and continued demonstration of financial need. Students who submitted an application for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) by April 15. ACCESS AWARD.

Donor(s): The Blount Foundation, Inc. with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Entering students who have applied for the President’s, Lincoln Alexander’s or Pamela Wallin’s Chancellor’s Scholarships who are interviewed, but not successful in the competition with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $9,600 (payable in 8 payments of $1,200)

Landoni Athletic Scholarship [E4405]

Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Selection will be based on demonstrated athletic and academic leadership. Nominations will be put forward by varsity coaches. Student must complete the online Financial Need Assessment Form for Entrance Awards by April 15. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD

Donor(s): Peter Landoni with matching funding through the Ontario Trust for Student Support program

Qualification(s): Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,000

Norman L. Gibbins Microbiology Scholarship [E4392]

Established through a generous bequest from Norman L. Gibbins, with the assistance of the Ontario government’s OTSS program, in support of training in Microbiology. Preference will be given to students entering the Microbiology Co-op major. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): Family, friends and colleagues of Norman Gibbins with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students entering the Microbiology major in the B.Sc. program with a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $1,000

P.A.J. Clarke Family Scholarship [E0381]

Paul and Aileen Clarke and their family established the endowment for this entrance scholarship in honour of Paul’s father, the late Jack Clarke, a Blenheim area farmer. Apply by April 15 to Student Financial Services with a letter outlining extracurricular and/or community activities, and complete the Financial Need Assessment Form for Entrance Awards (E.N.A.F). This award is not tenable with the President’s Scholarships or Lincoln Alexander Scholarships. Annual payments are contingent upon full-time enrolment and maintaining a minimum 70% average on the previous Fall and Winter semesters. Students may be contacted to provide special need circumstances if there is a short list of equal candidates.

Donor(s): Paul and Aileen Clarke

Qualification(s): Students with a minimum 80% average with a record of leadership and community participation. Preference will be given to candidates from Blenheim district or Kent County and who were raised, or have worked, on a farm.

Amount: 1 award of $12,000 (payable over 4 years)

Rol-Land Farms Scholarships [E4519]

Established by Rol-Land Farms, with the assistance of the Ontario government’s OSOTF program, to attract entering students who might otherwise not be able to attend university for financial reasons. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): Rol-Land Farms with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students entering a degree program with demonstrated financial need and a minimum 80% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 13 awards of $2,000

Spitzig Entrance Scholarship in Economics [E4543]

A graduate (1986) of the B.A. Economics program has established these scholarships with the assistance of the Ontario government’s OTSS program. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15. ACCESS AWARD

Donor(s): Anonymous with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students entering a Bachelor of Arts program offered by the Department of Economics with a minimum 80.0% admission average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 2 awards of $4,500

W. F. Mitchell Athletic Scholarship [E4550]

Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. ACCESS AWARD

Donor(s): The Mitchell Family with matching funding through the Ontario Trust for Student Support program

Qualification(s): An entering student athlete who is a member of a varsity team and who has a minimum 80% admission average and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 1 award of $1,350

Entrance Bursaries

Elizabeth Maud Hunter (Shier) Bursary [E3575]

This award was created to assist first year students in obtaining a post secondary education and is in honor of Mr. Hunter’s late wife, Elizabeth Maud Hunter (Shier) who did not have the opportunity to attend the University due to the sudden death of her mother. It was his wish to support a female student facing a similar situation. Preference given to a student from the County of Brock. Apply by April 15 to Student Financial Services by completing the online Financial Need Assessment Form for Entrance Awards. ACCESS AWARD

Donor(s): The Estate of the Late William Henry "Harry" Hunter with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students entering any degree program at the University of Guelph with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: 3 awards of up to $4,500

First Year Student Residence Bursary [E3666]

These 5 bursaries will be offered to the students with the greatest demonstration of financial need and are conditional upon the student residing in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date. Students should apply by completing the online Financial Need Assessment Form for Entrance Awards by April 15.

Donor(s): Student Housing Services

Qualification(s): Students entering any degree program with demonstrated financial need.

Amount: 5 awards of $500
Harvey Graham Bursary [E3030]

Provided by Harvey Graham (O.A.C. ‘39). Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student). Deadline to submit the application is April 15.

Donor(s): Harvey Graham, O.A.C. ’39
Qualification(s): Student who has demonstrated financial need with preference given to a student who comes from a working farm. Students graduating from Lindsay C. V. I., Fenelon Falls Secondary School, or I. E. Weldon Secondary School will be considered. Application must be accompanied by a reference letter from the Reeve of the student’s home township.
Amount: 1 award of $1,200

International Student Entrance Bursaries [E3043]

In support of the University’s strategic direction of internationalism, entrance bursaries are available each fall to assist some of our international students entering an undergraduate degree program at the University of Guelph. Apply by March 1 by submitting the International Registrar’s Entrance Award Application to Student Financial Services.

Donor(s): University of Guelph
Qualification(s): Students on a student visa entering an undergraduate degree program at the University of Guelph with demonstrated financial need.
Amount: Several awards ranging in value from $1,000 to $3,000

Registrar’s Entrance Bursaries [E3084]

Established by the University of Guelph to support entering undergraduate students with identified financial need. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the University of Guelph Accessibility Bursary, but can be held with all other entrance awards.

Donor(s): University of Guelph
Qualification(s): Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.
Amount: 500 awards of $2,000

Robert Arthur Stewart Bursaries [E3272]

Established in memory of Mrs. Elsa H. Stewart of Pakenham, Ontario. Mr. Stewart graduated from the Ontario Agricultural College in 1933 and Mrs. Stewart from Macdonald Institute in 1932. Applicants for these bursaries should have a good academic record and an active interest in community affairs. A letter from the student and a recommendation from the County agricultural representative or the secondary school principal should be sent to Student Financial Services by April 15. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15.

Donor(s): The Estate of Mrs. H. Stewart
Qualification(s): Students from the Ontario Counties of Lanark and Renfrew, and the Regional Municipality of Ottawa-Carleton, entering the 1st semester of a degree program at the University of Guelph.
Amount: 12 awards of $500

University of Guelph Accessibility Bursaries [E3038]

Established by the University of Guelph to support students with substantial demonstrated financial need. In addition, students will be automatically approved for a $2,000/year work-study stipend conditional on the student securing a work-study approved position on campus. Participating in the work-study program is not required to hold this bursary. Payments of this award and the eligibility to participate in the work-study program are conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and registration in a minimum of 1.5 credits. Students should complete the online Financial Need Assessment Form for Entrance Awards (E.N.A.F.) application as soon as they receive their Acknowledgment Package from Admission Services (this will come automatically after an application for admissions has been submitted by the student) or by April 15. Students do not need an offer of admission to submit the E.N.A.F. Scholarship offers will be made in May. This award is not tenable with the Registrar’s Entrance Bursary, but can be held with all other Entrance Awards.

Donor(s): University of Guelph
Qualification(s): Students entering any degree program with demonstrated financial need and a minimum registration of 1.5 credits.
Amount: 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

In-course Scholarships

1961-1964 Redmen Football Scholarships [I0770]

Made possible by the generous contributions of members of the 1961-1964 Redmen Football teams. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Dr. Robert Keith (c/o 1961-1964 Football Committee)
Qualification(s): Current member of the Gryphon Football team who is registered in the University of Guelph with demonstrated financial need and a minimum registration of 1.5 credits.
Amount: several scholarships ranging from $1500 to $3500

2003-2009 Men's Cross Country and Track and Field Legacy Scholarship [I0769]

Made possible by the generous contributions of Gryphon Cross Country and Track and Field alumni from 2003-2009. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Christopher Moulton (on behalf of the 2003-2009 Gryphon Men’s Cross Country team)
Qualification(s): Current member of the Gryphon Men’s Cross Country or Track and Field team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: 1 award of $1,500

Al Singleton Hockey Scholarships [I0687]

The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $750 to $3,500

Allen Keele Track and Field Scholarship [I0663]

Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Allen Keele
Qualification(s): In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $1,350
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bill Taylor Memorial Scholarship [I0280]</td>
<td></td>
<td>Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15. Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>AMF Canada Ltd.</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or intercollegiate athletics.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $900</td>
<td></td>
</tr>
<tr>
<td>Bob &amp; Joyce Brooks Football Scholarships [I0691]</td>
<td></td>
<td>The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>Mrs. Joyce Brooks</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Current member of the football team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>Numerous awards ranging in value from $750 to $3,500</td>
<td></td>
</tr>
<tr>
<td>CFRU Volunteer Award [I0215]</td>
<td></td>
<td>Apply to the CFRU Board of Governors by April 30.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>Station Manager, CFRU</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Applicants must be registered or graduating from the University of Guelph and have volunteered at CFRU for at least one year. The recipients will be selected on the basis of academic performance and volunteer work at CFRU.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $250</td>
<td></td>
</tr>
<tr>
<td>Chemistry Club Prize for Chemistry Promotion [I0495]</td>
<td></td>
<td>Awarded to the student who has made outstanding efforts to promote chemistry within the university or the community. Applicants should submit a one-page summary outlining their efforts to promote the disciplines of chemistry within the university, or the community to the Chair of the Department of Chemistry Undergraduate Awards Committee by February 1st.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>The Chemistry Club</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Students registered in any degree who are members of the Chemistry Club.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $200</td>
<td></td>
</tr>
<tr>
<td>Class of 1970 Scholarship [I0424]</td>
<td></td>
<td>Established by the Silver Anniversary celebrants to commemorate the 25th anniversary of the University Class of 1970. This award rotates among all six colleges on the main campus. The appropriate College Award Committee selects the candidate each Fall semester and the candidate is announced each October. Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>Class 1970: 25th Reunion Gift</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Outstanding student in any degree program who has attained at least an 80% average in two consecutive semesters resulting in placement on the Deans’ Honours List.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $900</td>
<td></td>
</tr>
<tr>
<td>Coach Rudy Florio Football Scholarship [I0737]</td>
<td></td>
<td>Established by Rudy Florio. Selection will be based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>Mr. Rudy Florio</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Current member of the varsity football team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $3,500</td>
<td></td>
</tr>
<tr>
<td>College of Physical Engineering Science Academic Scholarship [I0073]</td>
<td></td>
<td>Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>College of Physical and Engineering Science</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Offered in the Winter semester to students who have completed at least 15.0 course credits in a College of Physical and Engineering Science program and have excellent grades but have not received awards recently.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $250</td>
<td></td>
</tr>
<tr>
<td>College of Physical Engineering Science Graduation Prize [C0075]</td>
<td></td>
<td>The winner will be selected in May from all students who have completed the program in the previous twelve months. Application is not required. One award of $250 and a Commemorative plaque.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>College of Physical and Engineering Science</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Student graduating with the highest cumulative average from an honours B.Sc. program in a Physical and Engineering Science area.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $250, 1 Commemorative plaque</td>
<td></td>
</tr>
<tr>
<td>College of Physical Engineering Science Scholarship [I0076]</td>
<td></td>
<td>Awarded to a student with a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>The Senoff family and the College of Physical and Engineering Science, together with the University of Guelph Faculty Association and friends</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Students registered in any degree program who have completed the courses PHYS<em>2440 and PHYS</em>2460 with a 80% average required in courses normally taken in Year 3.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $250</td>
<td></td>
</tr>
<tr>
<td>Collins Barrow Award [I0040]</td>
<td></td>
<td>Offered by Collins Barrow, a national firm of Chartered Accountants. Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>Collins Barrow Chartered Accountants</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Student with the highest grade in course ACCT*3330, Intermediate Accounting, in the Fall semester. In the event of a tie, the scholarship will be given to the student with the highest cumulative average in their program.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $500</td>
<td></td>
</tr>
<tr>
<td>Copernicus Scholarship in Physics [I0081]</td>
<td></td>
<td>Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>The faculty members of the Department of Physics through their Scholarship Trust Fund</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Students who have completed 7.5 course credits and are registered in one of the majors programs in Physics. To be eligible, students must have completed the courses PHYS<em>2440 and PHYS</em>2460 with a minimum of an A average. The awards will be made to the students with the highest average in the Physics courses taken in the Year 1 and in PHYS<em>2440 and PHYS</em>2460.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>4 awards of $500</td>
<td></td>
</tr>
<tr>
<td>David F. Boyes Apiculture Scholarship [I0031]</td>
<td></td>
<td>Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>The Apiculture Club</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Student registered in the Fall semester who achieves high academic standing in Introductory Apiculture (ENVB*2210) in the previous year, demonstrates an interest in apiculture and who has participated in extracurricular activities.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $150</td>
<td></td>
</tr>
<tr>
<td>Deans’ Scholarships [I0323]</td>
<td></td>
<td>This award was established by the Board of Governors in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>Board of Governors</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>150 awards of $1,000</td>
<td></td>
</tr>
<tr>
<td>Dr. Caesar V. Senoff Memorial Scholarship for Excellence in Chemistry [I0517]</td>
<td></td>
<td>The Senoff family and the College of Physical and Engineering Science, together with the University of Guelph Faculty Association and friends, have established this scholarship in memory of Dr. Caesar V. Senoff. Dr. Senoff discovered the first dinitrogen complex while completing his PhD at the University of Toronto, opening up a new field of chemistry. A valued member of the University of Guelph faculty from 1968 to 1996, his positive influence continues through his students and colleagues. This scholarship will be given annually to the student with the highest cumulative average. Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>Senoff family and the College of Physical and Engineering Science, together with the University of Guelph Faculty Association and friends</td>
<td></td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Students registered in a major offered by the Department of Chemistry who have completed between 7.5 and 9.75 credits and a minimum cumulative average of 80%.</td>
<td></td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $500</td>
<td></td>
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</tbody>
</table>
Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [10695]

| Donor(s): | Various Donors |
| Qualification(s): | Current member of the Varsity Cross / Country or Track and Field Team, who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete |
| Amount: | 1 award of $1,350 |

E.B. MacNaughton Convocation Prize [C0171]

| Donor(s): | The College of Physical and Engineering Science |
| Qualification(s): | The College of Physical and Engineering Science nominee for the Winegard Medal |
| Amount: | 1 award of $250, 1 Plaque-mounted medal |

Egelstaff Scholarship [10397]

| Donor(s): | Department of Physics |
| Qualification(s): | Student who has completed 12.5 course credits, is currently registered in one of the majors in Physics and has a high cumulative average (of at least 80%) in the required Physics courses normally taken in Years 2 & 3 of the major. |
| Amount: | 1 award of $1,500 |

Elaine Scott-Thomas Track and Field Scholarship [10706]

| Donor(s): | Dave Scott-Thomas CBS BSc ’88 |
| Qualification(s): | Current member of the varsity cross-country or track and field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete |
| Amount: | 1 award of $500 |

Embry Family Scholarship [10736]

| Donor(s): | Mr. John Embry |
| Qualification(s): | Current member of a varsity team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete |
| Amount: | 1 award of $3,500 |

Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [10627]

| Donor(s): | Ernest Kendall |
| Qualification(s): | In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year. |
| Amount: | 2 awards of $1,350 |

Floyd Roadhouse Prize in Analytical Chemistry [10247]

| Donor(s): | Professor F.E.B. Roadhouse, colleagues, students and friends |
| Qualification(s): | Students registered in an honours major program offered by the Department of Chemistry and who have completed CHEM*2400, Analytical Chemistry. |
| Amount: | 1 award of $200 |

Football Endowment Fund (FEF) Scholarship [10644]

| Donor(s): | Various University of Guelph donors |
| Qualification(s): | In-course student-athlete who is a current member of the Men’s football team and has achieved a minimum 70% average in the previous academic year. |
| Amount: | various awards of $750 to $3,500 |

George A. Farley Scholarship [10099]

| Donor(s): | James M. Farley |
| Qualification(s): | Student enrolled in a Co-op program administered by the Department of Chemistry with a cumulative average of at least 80% and who has completed their second work term within the preceding calendar year. |
| Amount: | 1 award of $250 |

George A. Gray O.A.C. ’51 Varsity Scholarships [10487]

| Donor(s): | Mrs. George A. Gray |
| Qualification(s): | In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year. |
| Amount: | 2 awards of $1,250 |

George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [10677]

| Donor(s): | George Ames |
| Qualification(s): | In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year. |
| Amount: | 1 award of $3,500 |

Gerd and Christel Baldauf Men’s Basketball Scholarship [10639]

| Donor(s): | Dr. Christian Baldauf |
| Qualification(s): | In-course student-athlete registered in the BSc. program who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year. |
| Amount: | 1 award of $3,500 |

Governor General’s Medal [C0044]

| Donor(s): | The Chancellery |
| Qualification(s): | Restricted to those undergraduate students in any degree program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average. |
| Amount: | 2 awards of a Silver medal each |

Gryphon Athletic Scholarships [10631]

| Donor(s): | University of Guelph |
| Qualification(s): | In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year. |
| Amount: | various awards of $750 to $3,500 |
### Guelph Soap Company Scholarship [I0288]

Established by the Guelph Soap Company and awarded to the student with the highest average in BIOC*2580 and two courses in Organic Chemistry (CHEM*3750, 3750, 3760, 4720, 4730). Application is not required.

**Donor(s):** Tricorp Chemical Specialties

**Qualification(s):** Students registered in any major offered by the Department of Chemistry who have completed CHEM*3750 or CHEM*3760 during the previous calendar year and completed BIOC*2580.

**Amount:** 1 award of $1,200

### Hypercube Scholar Prize for Excellence in Chemistry [C0527]

Established to recognize the student graduating with the highest cumulative average in any chemistry program offered by the Department of Chemistry. Application is not required.

**Donor(s):** Hypercube Inc.

**Qualification(s):** Students graduating (or have graduated in the fall or winter of the current academic year) from a four-year degree program offered by the Department of Chemistry.

**Amount:** A award of a plaque and a molecular modelling software package

### International Undergraduate Scholarship [I0577]

Established through a student referendum approved by the undergraduate student body, to recognize international students’ academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University and two academic and/or professional references. This award can only be held once by the student.

**Donor(s):** International Student Organization (ISO)

**Qualification(s):** Full-time International students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75%.

**Amount:** 2 awards of $2,000

### J.B. Reynolds Graduation Medal in Physics [C0399]

This medal is awarded to a graduating student in the Spring semester or the previous Fall or Winter Semesters. Application is not required.

**Donor(s):** Department of Physics

**Qualification(s):** Student who has completed semester 8 of any of the majors in Physics and who has obtained the highest cumulative average in the required Physics courses of that program, normally taken in semester 5 to 8.

**Amount:** 1 award of a Medal

### J.L. Campbell Scholarship [I0479]

Established in honour of J.L. (Iain) Campbell, former Provost and Vice-President (Academic), of the University of Guelph from 1995 to 2000 and former Dean of the College of Physical and Engineering Science from 1987 to 1995. Application is not required.

**Donor(s):** Family, friends and colleagues of J.L. Campbell

**Qualification(s):** Student who is currently registered in one of the majors in Physics and who has completed at least 12.50 credits, with a high cumulative average (at least 80%) in the required Physics courses normally taken in Year 2 and 3 of the major.

**Amount:** 1 award of $1,000

### Jack and Lillian MacDonald Scholarship [E0379]

Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald, Vice-President, Academic, of the University of Guelph from 1986 to 1995, have established a scholarship that recognizes their commitment to increasing the accessibility of post-secondary education to aboriginal persons. In the first instance, the award will be given to an entering student coming from the Six Nations Polytechnic (SNP) and who has received the highest cumulative average in the Native University Program. If there is no entering student in any one year, the scholarship will be awarded to the in-course student who is a graduate of the SNP (previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

**Donor(s):** Family, friends, and colleagues of Lillian MacDonald and Dr. Jack MacDonald

**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).

**Amount:** 1 award of $900

### James L. Hunt Scholarship [I0603]

Established on honour of Professor Emeritus James L. Hunt, Medal of Merit recipient. The recipient will have achieved the highest cumulative average over 80%. This award cannot be held with any other awards offered by the Department of Physics. Application is not required.

**Donor(s):** Department of Physics

**Qualification(s):** Students registered in any major offered by the Department of Physics that have completed 10.0 credits and have achieved a minimum 80% cumulative average.

**Amount:** 1 award of $1,500

### John Eccles Scholarship [I0093]

Apply to Student Financial Services, by May 15, with a letter highlighting leadership abilities through participation on residence life. Providing a reference letter would be an asset.

**Donor(s):** Student Housing Services

**Qualification(s):** Full-time student registered in semester 2, 3, 4, 5 or 6 and living in residence in the Winter semester who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in residence related activities. Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.

**Amount:** 1 award of $600

### Kelly Bertrand Cross Country Scholarship [I0684]

The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, perseverance and contributions to the team. Preference is given to current members of the Varsity Cross Country Team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Kelly Bertrand

**Qualification(s):** Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

**Amount:** 1 award of $2,000

### Kenneth W. Hammond Prize [I0045]

The evaluation of the student will be based on the final essay in the "Environmental Perspectives and Human Choice: 5000 Days” course. The selection committee will be comprised of 4 persons: the donor, the Director of the Arboretum, the Dean of Physical and Engineering Science and the Dean of Biological Science. Application is not required.

**Donor(s):** Kenneth W. Hammond

**Qualification(s):** Student who has best demonstrated an understanding of the world’s resource situation and its proper use by humankind.

**Amount:** 1 award of $1,000

### Kevin Durie Memorial Scholarship [I0653]

Established in memory of Kevin Durie, BA '93, by his family and friends. Selection will be based on demonstration of outstanding service as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

**Donor(s):** Christine Blake-Durie

**Qualification(s):** Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.

**Amount:** 1 award of $1,000

### Kip Hunter Prize [I0139]

For the best essay, written by an undergraduate in a philosophy course. The essay may be either a required assignment for a course (in which case either the student or the instructor may submit it) or it may be specially prepared for the competition. Submission of essays is to the Chair, Department of Philosophy, by May 1

**Donor(s):** Faculty, students and staff of the Philosophy Department

**Qualification(s):** Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.

**Amount:** 1 Book prize
IX. Scholarships and Other Awards, Bachelor of Science in Technology

Lambda Foundation Scholarship in LBGT Studies [I0591]

This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a given student only once. Projects must have been completed or research proposals accepted within the past calendar year. Apply to the Dean of Arts by December 15th including the research proposal or completed project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.

Donor(s): Lambda Foundation and other donors

Qualification(s): Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.

Amount: 1 award of $1,000

Lange and Prokipcak Chemistry Scholarship [I0528]

This scholarship was established by Professor Gordon L. Lange, Professor Joe M. Prokipcak and friends and colleagues. Professors Gordon L. Lange and Joe M. Prokipcak were valued members of the chemistry Faculty who retired in 2001. Their excellence in teaching was recognized within the university and nationwide, winning them a total of eleven teaching awards. This scholarship will be awarded to the student with the highest average grade in CHEM*1040,1050 and 2700. Application is not required.

Donor(s): Professor Gordon L. Lange, Professor Joe M. Prokipcak and friends and colleagues

Qualification(s): Student registered in any program offered by C.P.E.S. who has completed CHEM*1040, CHEM*1050, CHEM*2700 and have completed a minimum of 10.0 credits up to a maximum of 14.75 credits.

Amount: 1 award of $1,000

Larry Pearson Men’s Volleyball Athletic Scholarships [I0618]

Established by Larry Pearson, a former varsity volleyball athlete and University of Guelph graduate, this scholarship recognizes students who are members of the men’s varsity volleyball team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Committee. Application is not required.

Donor(s): Larry Pearson

Qualification(s): In-course student-athlete who is a current member of the men’s varsity volleyball team and has achieved a minimum 70% average in the previous academic year.

Amount: several awards up to $3,500

Latifpoor-Keparoutis Family Varsity SwimTeam Scholarship [I0732]

Selection will be based on demonstrated leadership qualities and contributions to the team with preference given to a C.B.S. or C.P.E.S. student athlete. Head Coaches will nominate students to the Athletic Awards Committee. Application is not required.

Donor(s): Maryam Latifpoor-Keparoutis

Qualification(s): Current member of the varsity swim team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.

Amount: 1 award of $1,200

Leonard Conolly Exchange Student Scholarship [I0446]

Established by students, staff, friends and colleagues to honour Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

Donor(s): Students, staff, faculty and friends of Dr. Leonard Conolly

Qualification(s): Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).

Amount: 1 award of $1,000

Lloyd Dorr Memorial Hockey Scholarship [I0708]

Established in memory of Lloyd Dorr to recognize his belief in the value of education and his love of sports. Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): Family and Friends of the late Lloyd Dorr

Qualification(s): Current member of the men’s varsity hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

Amount: 1 award of $1,000

MacKenzie Scholarship [I0398]

In honour of University Professor Emeritus Innes K. MacKenzie. Not tenable with the Egelstaff Scholarship. Application is not required.

Donor(s): Department of Physics

Qualification(s): Students who have completed 12.5 course credits and are currently registered in one of the majors in Physics. It is given to a student with a high cumulative standing (of at least 80%) in the required physics courses normally taken in Years 2 & 3 of the major.

Amount: 1 award of $1,000

MacNaughton Scholarship [I0422]

Established by Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science. Application is not required.

Donor(s): Earl B. MacNaughton

Qualification(s): Student who has completed semester 5 and is currently registered in one of the majors in Physics and has a high cumulative average (at least 80%) in the required Physics courses normally taken in semesters 3, 4 and 5 of the major.

Amount: 1 award of $500

Marion McKenzie Scholarships for Outstanding Achievement in History [I0470]

These scholarships have been established in memory of Marion McKenzie (1905-1994), a teacher who had a love of learning and a continuing curiosity about the world both past and present. These are awarded to the top student in each of the required core courses in the History program (HIST*1010, HIST*2450, HIST*2602). Application is not required.

Donor(s): Marion McKenzie

Qualification(s): The recipient for HIST*1010 must have completed no more than 5.0 credits; the recipient for HIST*2450, no more than 10.0 credits and be in the history program; and the recipient for HIST*2602, no more than 10.0 credits.

Amount: 3 awards of $400

Men’s Basketball Scholarships [I0638]

Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Anonymous (Alumnus)

Qualification(s): In-course student-athlete who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.

Amount: 4 awards of $2,500

Men’s Soccer Alumni Scholarship [I0771]

Made possible by the generous contributions of Men’s Soccer Alumni and friends. The recipient(s) will be selected based upon extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

Donor(s): Mr. Paul Wombwell (on behalf of the Men’s Soccer Alumni Committee)

Qualification(s): Current member of the Gryphon Men’s Soccer team who is registered in any undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

Amount: several awards ranging in value from $1,000 to $3,500
### Nathan Max Goldman Choir Scholarships [I0774]
Established in honour of Mr. Goldman, an OAC graduate (1945 and 1947) and former President of the Philharmonia Society at the University of Guelph. The scholarships will support two students who demonstrate outstanding leadership and vision in the Symphonic Choir and/or the Chamber Choir. One award will be available to a student in each choir and will be given to the candidate who best combines high vocal achievement and choral leadership. A vocal audition may be required. In the event that there is more than one suitable candidate, the student who is a majoring in Music will be given preference, and thereafter, the student with the highest cumulative average. No application is required as a recommendation by Choir Director will be made to the SOFAM Awards Committee.

**Donor(s):** Mrs. Anne Goldman and the family of Nathan Max Goldman  
**Qualification(s):** Students registered in any degree program who are currently a member of the University of Guelph Symphonic Choir and/or the Chamber Choir and have been a member of the University of Guelph Choirs for at least two years.

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<tr>
<th>Amount</th>
<th>2 awards of $1,000</th>
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### Priscilla and Stanford Reid Trust Prize [I0597]
Established in honour the first chair of the History Department, Stanford Reid, and his wife, Priscilla Reid to acknowledge the best paper written about the history of Presbyterianism and/or the Reformed tradition. Apply, by April 1, with a copy of the paper and a covering letter including contact information to the Department of History Awards Chair.

**Donor(s):** Priscilla and Stanford Reid Trust Fund  
**Qualification(s):** Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition.

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<tr>
<th>Amount</th>
<th>1 award of $500</th>
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### Professional Staff Association Scholarship [I0628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 by sending an email to awards@registrar.uoguelph.ca and include the name of the family member of the Professional/Managerial Group of the University, and/or retired Professional/Managerial Group of the University of Guelph. This award may be held more than once, however, not in consecutive years. Preference will be given to students of current or retired P.S.A. members.

**Donor(s):** Professional Staff Association  
**Qualification(s):** Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University and/or retired Professional/Managerial Group of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.

<table>
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<tr>
<th>Amount</th>
<th>1 award of $1,500</th>
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### Professor Victor Matthews Track and Field Scholarships [I0707]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coach will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors  
**Qualification(s):** Current member of the varsity cross-country or track field team, who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete

<table>
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<tr>
<th>Amount</th>
<th>up to 10 $500 each</th>
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### R.C. Moffatt Memorial Scholarship in Physics [I0535]
This scholarship is awarded in the winter semester to the student with the highest cumulative average over 80%. This award is not tenable with any other Department of Physics scholarships. Application is not required.

**Donor(s):** Estate of Professor R.C. Moffatt  
**Qualification(s):** Student who have completed a minimum of 10.0 credits up to a maximum of 19.75 credits and is enrolled in a physics major.

<table>
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<tr>
<th>Amount</th>
<th>1 award of $900</th>
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### Rachel Cliff Scholarship [I0790]
The recipient will be selected based on demonstrated leadership abilities and contributions to the team. Preference will be given to a student whose permanent residence is outside of Ontario. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.

**Donor(s):** Mr. Ronald & Nancy Cliff  
**Qualification(s):** Current member of the Women’s Middle Distance Team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

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<tr>
<th>Amount</th>
<th>1 award of $1,500</th>
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</table>

### Russell Athletic Scholarships [I0722]
The recipients will be selected based on demonstrated leadership qualities and contributions to the team. Coaches will nominate students to the Athletic Awards Committee. No application necessary.

**Donor(s):** H.D. Brown Enterprises Ltd.  
**Qualification(s):** Current members of a University of Guelph Varsity Team who have achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

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<tr>
<th>Amount</th>
<th>4 awards of $2,500</th>
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### Society of Chemical Industry Prizes in Chemistry/Appplied Pharmaceutical Chemistry [C0333]
One plaque will be awarded to the Honours Chemistry student with the highest cumulative average and one plaque will be awarded to the student with the highest cumulative average in either Biological Chemistry or Applied Pharmaceutical Chemistry Honours programs. Application is not required.

**Donor(s):** Society of Chemical Industry  
**Qualification(s):** Students who have convocated from the Chemistry, Biological Chemistry or Applied Pharmaceutical Chemistry Honours programs.

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<tr>
<th>Amount</th>
<th>2 awards of an Engraved plaque</th>
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### Sprung Family Men’s Basketball Scholarship [I0672]
Established by Timothy Sprung, CSS B.A ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

**Donor(s):** Mr. Timothy Sprung  
**Qualification(s):** In-course student-athlete who is a current member of the Men's basketball team and has achieved a minimum 70% average in the previous academic year.

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<tr>
<th>Amount</th>
<th>1 award of $3,500</th>
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### Stephanie Wilken Volunteer Scholarship [I0449]
Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to Student Financial Services with letter indicating the kind and extent of volunteer activities at the Wellness Centre by October 1. Selection committee is the Senate Committee on Awards on the recommendation of the Student Wellness Educator at the Wellness Centre.

**Donor(s):** Bev and Darlene Wilken  
**Qualification(s):** Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre.

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<tr>
<th>Amount</th>
<th>1 award of $1,000</th>
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### Thomas H. Peters Scholarship [I0233]
Application is not required.

**Donor(s):** Friends and associates of Thomas H. Peters  
**Qualification(s):** Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP*2280, SOIL*3200), with a minimum 10.0 credits completed. Applicants must have a minimum of 70% cumulative average and have demonstrated an interest and aptitude in the area of crops and land reclamation.

<table>
<thead>
<tr>
<th>Amount</th>
<th>1 award of $250</th>
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### Tom Mooney Scholarship [I0709]
The recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

**Donor(s):** Various Donors  
**Qualification(s):** Current member of the varsity men’s football team or men’s basketball team who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.

<table>
<thead>
<tr>
<th>Amount</th>
<th>Numerous awards ranging in value from $1,000 to $3,500</th>
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</thead>
</table>

### Toronto District Beekeeper’s Association Scholarship [I0285]
A scholarship is offered by the Toronto District Beekeepers Association in memory of the late Hugh McLeod, past chair of the Association. Application is not required.

**Donor(s):** Mr. Jack Robinson  
**Qualification(s):** The recipient will have good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.

<table>
<thead>
<tr>
<th>Amount</th>
<th>1 award of $500</th>
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</thead>
<tbody>
<tr>
<td>Scholarship Name</td>
<td>Details</td>
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<td>-----------------</td>
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</tbody>
</table>
| United Steelworkers Local 4120 Scholarship [10293] | Apply to Student Financial Services by January 31 and provide the name of the USWA member and relationship to the applicant. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class standing in his or her previous full-time semester.  
**Donor(s):** United Steelworkers LU 4120  
**Qualification(s):** Student who is a member or former member, or who is from the immediate family of a member of United Steelworkers LU 4120, and who is entering semester 2, 3, or 4 of a degree or diploma program in the Winter semester with a minimum 70% cumulative average.  
**Amount:** 1 award of $1,000 |
| University of Guelph Alumni Legacy Scholarship [10735] | Funded through donations made to the University of Guelph Alumni Memorial Fund in memory of deceased alumni. The recipient will be selected based on academic achievement and volunteer contributions to the University of Guelph community. Apply to Student Financial Services by May 15 with a cover letter indicating name, degree and year of graduation of alumna/alumnus relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.  
**Donor(s):** Various donors c/o University of Guelph Alumni Association Memorial Fund  
**Qualification(s):** Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with both a minimum cumulative average of 75% and demonstrated volunteer leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumna/us of the University of Guelph or its founding colleges.  
**Amount:** 1 award of $1,000 |
| Van Stralen and Van Der Hoeven Memorial Scholarship [10296] | Selection will be made on the basis of participation in university activities and in the student's home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.  
**Donor(s):** Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family  
**Qualification(s):** Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.  
**Amount:** 2 awards of $400 |
| W.C. Winegard Medal [C0311] | The W.C. Winegard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.  
**Donor(s):** The Board of Governors of the University  
**Qualification(s):** Graduating student who excels both academically and in extracurricular activities.  
**Amount:** 1 award of a Gold medal |
| W.N. Vaughan Medal [C0299] | Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.  
**Donor(s):** Friends of Walter N. Vaughan  
**Qualification(s):** Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.  
**Amount:** 1 award of a Medal |
| William P. McEwen OAC '43 Men's Varsity Hockey Scholarships [10703] | The recipients will be selected based on extraordinary athletic and leadership qualities. No application is necessary. Coaches will nominate students to the Athletic Awards Committee.  
**Donor(s):** Mrs. Irene McEwen  
**Qualification(s):** Current member of the Men's Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.  
**Amount:** Numerous awards ranging in value from $750 to $3,500 |
| William P. Weber Football Scholarship [10634] | Established by Dr. William P. Weber, OVC '59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.  
**Donor(s):** Dr. William P. Weber  
**Qualification(s):** In-course student-athlete who is a current member of the Men's Football team and achieved a minimum 70% average in the previous academic year.  
**Amount:** 1 award of $2,500 |
| In-course Scholarships with Financial Need |
| 3M Canada Scholarships [10564] | Provided by 3M Canada. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.  
**Donor(s):** 3M Canada Company  
**Qualification(s):** Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.  
**Amount:** various award of up to $4,000 |
| Brian Kenneth Howard Memorial Scholarship [14548] | Established by Kenneth and Irene Howard in memory of their son, Brian Kenneth Howard. Awarded to a student assessed as having financial need with a preference given to students from York, Durham or Simcoe counties. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.  
**Donor(s):** Kenneth and Irene Howard with matching funding through the Ontario Trust for Student Support program  
**Qualification(s):** Student registered in any degree program with a minimum 75.0% cumulative average. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).  
**Amount:** 1 award of $2,700 |
| C.P.E.S. Dean’s Scholarship - ACCESS [14527] | Established with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. This award may be held once only. ACCESS AWARD  
**Donor(s):** Established by a number of industrial, commercial and public sector corporations with matching funding through the Ontario Student Opportunities Trust Fund  
**Qualification(s):** Students with demonstrated financial need registered in any major program in C.P.E.S. in, or beyond, second year. A minimum 80% cumulative average is required. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).  
**Amount:** 1 award of $800 |
| City of Guelph 175th Anniversary Scholarship [10515] | Funded by a leadership gift from the City of Guelph and donations from business and community leaders, this scholarship was established in 2002. Apply to Student Financial Services by October 7 with a letter describing volunteer activities, one reference letter from an individual familiar with the volunteer and/or community service contributions, and a completed Financial Need Assessment Form (N.A.F.). Selection will include equally weighted consideration of academic performance, leadership both on and off campus and financial need. This award may be held only once.  
**Donor(s):** The Guelph Community Foundation  
**Qualification(s):** Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 70.0% cumulative average, demonstrated volunteer leadership on campus and/or in the community and financial need. Applicants must be graduates of a City of Guelph high school and be Canadian citizens or permanent residents at the time of application.  
**Amount:** 1 award of $2,000 |
### Earl B. MacNaughton C.P.E.S. ACCESS Scholarships [14172]
Established by friends, faculty, staff, alumni and students of the University to honour Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical and Engineering Science, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** Earl B. MacNaughton with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students currently registered in the final year of an honours program in the College of Physical and Engineering Science with high academic standing, demonstrated financial need, and who have completed a minimum of 15.0 credits. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,000

### Eleanor Morgan & Bill Archibald Scholarships [14540]
The family of Eleanor and Bill Archibald, with the assistance of the Ontario government’s OSOTF program, provide this scholarship in memory of their parents. Apply with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining community involvement to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** The Family of Eleanor & Bill Archibald with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in any program with a minimum of 5.0 credits who have cumulative 70% average, has demonstrated community involvement, and financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (See General Statements on Awards).

**Amount:** 1 award of $1,000

### Erin Demers Memorial Scholarship [10406]
The family and friends of Erin Demers, a first-year student at the University of Guelph who was tragically killed in a car accident in 1996, have established this scholarship in her memory. Apply to Student Financial Services by October 7 with a completed Financial Need Assessment Form (N.A.F.), along with one supporting reference letter from a Residence Assistant, Residence Manager, or Residence Officer.

**Donor(s):** Family and friends of Erin Katrina Demers

**Qualification(s):** Students who have resided in an on-campus residence during their first year who have completed a minimum of 5.0 credits and who have a minimum 70% cumulative average. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.

**Amount:** 1 award of $1,500

### Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [14546]
Established by Ernest Kendall, O.A.C. ’32, with the assistance of the Ontario government’s OTSS program. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.). To be considered for this award, you must list it on your N.A.F. Selection will be made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD.

**Donor(s):** Ernest Kendall with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Students with demonstrated financial need who are members of the women's varsity basketball team and who have achieved a minimum 70% average in the previous academic year. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,350

### Euclid-Hitachi Scholarships [14517]
Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government’s OSOTF program, to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** Euclid-Hitachi of Canada Ltd. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

### Graham Family Incentive Scholarship [14506]
Provided by Harvey Graham (O.A.C. ’39) with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** Harvey Graham O.A.C. ’39 with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $4,000

### Graham, Fraser and Trevor Bosch Scholarships in Chemistry [14288]
Established by Mr. Martin Bosch of the Guelph Soap Company, with the assistance of the Ontario government's OSOTF program. Of the recipients with demonstrated financial need, preference will be given to Year 3 students with the highest cumulative averages in at least three 2000 level chemistry courses taken in Year 2. In the event that there are no qualified candidates in Year 3, students in Year 4 will be considered, based on demonstrated financial need and the highest cumulative averages in at least three 3000 level chemistry courses taken in Year 3. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Mr. Martin Bosch of the Guelph Soap Company with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students that have completed between 10.0 and 14.75 credits of an honours major program offered by the Department of Chemistry with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,200

### John Embry Family Scholarship [14549]
Established by John Embry, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarship(s) recognize students who are members of a varsity team and excellence in both academics and rigorous athletic environment. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** Mr. John Embry with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Student-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 2 awards of $3,500

### Landoni Athletic Scholarship [14405]
Established by Peter Landoni, former Bursar and Associate Registrar at the University of Guelph who valued the benefits of blending education and athletics, and was supported by friends, family and the Ontario government’s OTSS program. Of the recipients with demonstrated financial need, preference will be given to Year 3 students with the highest cumulative averages in at least three 2000 level courses taken in Year 2. In the event that there are no qualified candidates in Year 3, students in Year 4 will be considered, based on demonstrated financial need and the highest cumulative averages in at least three 3000 level courses taken in Year 3. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Preference given to men’s ice hockey, should lacrosse and/or men’s rugby obtain CIS status, preference should then be given to athletes from lacrosse and/or rugby. ACCESS AWARD.

**Donor(s):** Peter Landoni with matching funding through the Ontario Trust for Student Support program

**Qualification(s):** Current member of a University of Guelph varsity team who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

**Amount:** 1 award of $1,000
MacNaughton ACCESS Scholarship in Physics [I4523]
Established by Earl B. MacNaughton, former head of the Department of Physics and founding Dean of the College of Physical Science, and faculty, staff and alumni of the Department of Physics, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD
Donor(s): Earl B. MacNaughton and faculty, staff and alumni of the Department of Physics with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need who are in second year or beyond of a major physics program with a minimum cumulative average of 80%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 4 awards of $1,000

Residence Life Staff Scholarship [I0697]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Residence Life Staff Scholarship form and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. Recipients must reside in a Guelph main campus residence for the full year in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award, and are required to submit their residence deposit by the published due date.
Donor(s): Student Housing Services
Qualification(s): Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.
Amount: 2 awards of $500

Returning Student Residence Scholarship [I0696]
Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a Residence Life Staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is award is conditional upon the student remaining in a Guelph main campus residence for the full year, in which they hold this award in order to receive the full award, or one full semester to receive $250 of the award.
Donor(s): Student Housing Services
Qualification(s): Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.
Amount: 3 awards of $500

Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [I4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD
Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of the women's varsity ice hockey team who is enrolled in an undergraduate program with a minimum 70% average or equivalent during the previous academic year as a student-athlete who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: various awards of up to $3,500

Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [I4515]
Established by Sheryl and David Kerr, with the aid of the Ontario government’s OTSS program. Selection will be based on demonstrated leadership qualities, contributions to the team and demonstrated financial need. Apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD
Donor(s): Sheryl and David Kerr with matching funding through the Ontario Trust for Student Support program
Qualification(s): Current member of the women's varsity ice hockey team who is enrolled in an undergraduate program with a minimum 70% average or equivalent during the previous academic year as a student-athlete who has demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: various awards of up to $3,500

Tara Lynn Giuliani Memorial Scholarship [I0375]
In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7.
Donor(s): The Giuliani Family
Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.
Amount: 1 varying amounts

Tony and Anne Arrell Scholarships [I0686]
Tony Arrell, OAC BSc (Agri) ’67 and Anne Arrell, MAC BHSc ’68 have established 20 in-course awards for students with financial need. Awards will be distributed so that all colleges are represented. Apply by October 7 with a completed Financial Need Assessment Form to Student Financial Services. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.
Donor(s): Tony and Anne Arrell, Burgundy Asset Management
Qualification(s): Students registered in any degree program who have completed a minimum of 2.0 credits with a minimum 80% cumulative average and demonstrated financial need.
Amount: 20 awards of $5,000

University of Guelph Retiree Association Degree Scholarship [I0569]
The University of Guelph Retiree Association established this $1,500 scholarship in 2007 to acknowledge in-course student achievement. The student having the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last two semesters of full-time studies will be chosen. Apply by May 15th to Student Financial Services with a letter indicating name of and relationship to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.
Donor(s): University of Guelph Retiree Association (U.G.R.A.)
Qualification(s): Students with a minimum 75% cumulative average registered in a degree program who are related to a retiree of the University of Guelph as child, grand child or great grand child.
Amount: 1 award of $1,500

W. F. Mitchell Athletic Scholarship [I4550]
Established by the Mitchell Family, with the aid of the Ontario government’s OTSS program. Coaches will nominate student recipients to the Athletics Awards Committee. Coaches will nominate student recipients to the Athletics Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD
Donor(s): The Mitchell Family with matching funding through the Ontario Trust for Student Support program
Qualification(s): Students who is a member of a varsity team who has achieved a minimum 70% average in the previous academic year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,350
### Wellington Laboratories Scholarship [14308]
Wellington Laboratories, with the assistance of the Ontario government's OSOTF program, established this award through an endowment provided by Mr. Brock Chittim of Wellington Laboratories. Of the recipients with demonstrated financial need, preference will be given to Year 4 students with the highest cumulative averages in at least three 3000 level chemistry courses taken in Year 3. In the event that there are no qualified candidates in Year 4, students in Year 3 will be considered, based on demonstrated financial need and the highest cumulative averages in at least three 2000 level chemistry courses taken in Year 2. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

| Donor(s):                        | Mr. Brock Chittim of Wellington Laboratories with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s):               | Students that have completed a minimum of 15.0 credits of an honors major program offered by the Department of Chemistry with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount:                         | 2 awards of $1,000 |

### William & Nona Heaslip Scholarship [10589]
Students must apply to Student Financial Services by submitting a Financial Need Assessment Form (N.A.F.) by October 7. Recipients of this award can have this award renewed for up to 3 years provided they continue to demonstrate financial need and maintain a minimum 70% cumulative average of full-time (minimum 80% of a full course load) study. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

| Donor(s):                        | The William and Nona Heaslip Foundation |
| Qualification(s):               | Students that have completed 4.0 credits but no more than 6.0 credits in any degree program; are a Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financial need. |
| Amount:                         | 2 awards of $15,000 |

### Bette Stephenson Accessibility Bursary [13054]
In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student's advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

| Donor(s):                        | University of Guelph |
| Qualification(s):               | Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents. |
| Amount:                         | 3 awards to a maximum of $1,500 |

### Brinsom Partners Inc. Bursaries [13526]
Brinson Partners Inc., with the assistance of the Ontario government's OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

| Donor(s):                        | Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s):               | Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount:                         | 2 awards of $1,500 |

### Burnbrae Farms Bursaries [13525]
Established by Burnbrae Farms, with the assistance of the Ontario government's OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7. ACCESS AWARD

| Donor(s):                        | Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s):               | Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount:                         | 2 awards of $1,500 |

### Class of ‘72: 25th Reunion Bursaries [13512]
Established by the Class of ‘72: 25th Reunion Fund with the assistance of the Ontario government’s OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

| Donor(s):                        | Class of ’72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s):               | Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount:                         | 3 awards of $1,000 |

### Elizabeth Burton Bursaries [13503]
Mrs. Elizabeth Burton, with the assistance of the Ontario government’s OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

| Donor(s):                        | Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s):               | Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount:                         | Several awards of varying amounts |

### Gryphon Investment Council Bursaries [13513]
Established by Gryphon Investment Counsel, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

| Donor(s):                        | Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund |
| Qualification(s):               | Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |
| Amount:                         | 2 awards of $1,500 |

### Guelph Compassionate Health and Dental Bursary [13661]
This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.

| Donor(s):                        | Student Health and Dental Plan Reserve |
| Qualification(s):               | Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress. |
| Amount:                         | Several varies to a maximum $1,500 |
IX. Scholarships and Other Awards, Bachelor of Science in Technology

Guelph Student Assistance ACCESS Bursaries [I3556]
These bursaries have been established and approved by undergraduate students through student referendum with the aid of the Ontario government's OTSS program to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Central Student Association with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: Several awards of varying amounts up to $1,000

Guelph Student Assistance Program [I3056]
These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Undergraduate Students
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need.
Amount: Several awards of varying amounts up to $1,000

Helen Mahon Memorial Bursary [I3063]
Established in memory of Helen Mahon, a longtime employee of the University of Guelph and who, following the death of her husband, raised three young children alone, all of whom graduated from university. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and a statement that indicates you meet the criteria of this bursary. Awarded in the winter.

Donor(s): Family and Friends of Helen Mahon
Qualification(s): Students registered in any program who come from a family where one parent is deceased.
Amount: 1 award of $500

Howard and Myrtle Rogers Bursaries [I3387]
Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 10 up to $2,000

International Emergency Medical Aid Assistance [I3059]
The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.

Donor(s): University of Guelph
Qualification(s): Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.
Amount: Several awards of varying amounts

International Student Bursaries [I3009]
Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.

Donor(s): Mrs. Norma L. Valeriote
Qualification(s): Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.
Amount: Several of varying amounts

Irvine and Grace Black Memorial Bursary [I3051]
Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women's Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women's Institute.

Donor(s): Family and Friends of Irvine and Grace Black
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women's Institute.
Amount: 1 award of $500

John & Margaret Van Loon Family Bursary in Science [I3549]
Established on behalf of the Van Loon Family in honour of parents John & Margaret Van Loon. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Mr. Paul Van Loon and Mrs. Lauralene Van Loon
Qualification(s): Students registered in any program in the College of Biological Science or the College of Physical & Engineering Science who have completed a minimum of 2.5 credits. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).
Amount: 1 award of $1,000

Mary I. Whitelock Bursaries [I3524]
Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government’s OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 13 awards of $2,000

Ontario Co-operatives R.P. Forschaw Bursary [I3013]
The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forschaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.

Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forschaw
Qualification(s): Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.
Amount: 1 award of $400

Robert Auger Humanitarian Bursary [I3585]
This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.

Donor(s): Office of Registrarial Services
Qualification(s): Students registered in a degree program.
Amount: Several grocery vouchers or book vouchers
Ron Scriver Memorial Bursary [I3547]

Established in memory of Mr. Ron Scriver (1946 - 2005) C.P.E.S. B.A. '76, to honour his outstanding 32-year career with the Ontario Universities’ Application Centre and his extensive involvement with colleagues throughout the University system. Preference will be given to students registered in the Bachelor of Computing Science Program. Apply with a Financial Need Assessment Form to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Family and Friends of Ron Scriver with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Students registered in any program offered by C.P.E.S. with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSSS award (see General Statements on Awards).

Amount: 1 award of $1,500

Scotiabank Bursaries [I3532]

Established by Scotiabank, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,500

Shirley Endean Bursaries [I3570]

These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Estate of Shirley E. Endean & multiple donors with matching funding through the Ontario Trust for Student Support program

Qualification(s): Students registered in any degree program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).

Amount: Several awards of varying amounts

University of Guelph Access Bursaries [I3522]

Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Alumni and Friend of the University of Guelph with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: Several awards of $500, Several awards of $2,000

University of Guelph Alumni Association Access Bursaries [I3523]

Established by the University of Guelph Alumni Association, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund

Qualification(s): Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,000

University of Guelph Child Care Bursaries [I3053]

In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph

Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need.

Amount: Several awards of up to $2,000

University of Guelph International Bursary [I3048]

The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls while registered on campus. Students should apply to Benny Quay, in the Centre of International Programs office by completing an International Student Financial Need Assessment Form (N.A.F.). These bursaries are awarded on an on-going basis.

Donor(s): University of Guelph

Qualification(s): Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.

Amount: Several varies

University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG) [I3037]

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph

Qualification(s): Ontario students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.

Amount: Several awards ranging in value from $100 to $4,000

University of Guelph Undergraduate In-Course Bursaries (NON OSAPTR) [I3047]

The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph

Qualification(s): Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.

Amount: Several awards to a maximum of $500

University Police Bursaries [I3019]

The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): The University Police

Qualification(s): Full-time undergraduate with demonstrated financial need.

Amount: Several of various amounts

University Student Assistance Program [I3057]

These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph

Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP).

Amount: Several of various amounts to a maximum of $1,000
### In-course Travel Grants

<table>
<thead>
<tr>
<th>Grant Name</th>
<th>Description</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aeroplan International Travel Grant [T0604]</strong></td>
<td>Established to provide students with an airline ticket to international destinations served by Air Canada or its Star Alliance partners. Apply to Student Financial Services by June 30 with a &quot;Travel Grant Need-based Application&quot;. Preference will be given to students participating in the semester abroad or academic exchanges. Award is subject to the availability of Aeroplan miles and may not be available every year.</td>
<td>Students registered in a degree program who have completed a minimum of 4.0 credits; have a minimum cumulative average of 70%; have demonstrated financial need; and will be participating in official University of Guelph international travel activities related to their academic program.</td>
<td>Aeroplan</td>
<td>1 or more awards of a plane ticket</td>
</tr>
<tr>
<td><strong>Arthur D. Latornell Undergraduate Travel Grants [T0058]</strong></td>
<td>An endowment fund established in memory of Arthur D. Latornell, O.A.C. ’50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.</td>
<td>Students travelling as part of their program who have completed a minimum of 4 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.</td>
<td>The Estate of Arthur D. Latornell</td>
<td>several up to a maximum of $1000</td>
</tr>
<tr>
<td><strong>Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]</strong></td>
<td>The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government’s OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.</td>
<td>Undergraduate degree students in either the second or third year of study. Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a &quot;Letter of Permission&quot; prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Canadian Friends of the Hebrew University in Jerusalem</td>
<td>A number of awards to a maximum of $7,500</td>
</tr>
<tr>
<td><strong>OURA Innovation Travel Grant [T4393]</strong></td>
<td>Established in recognition of an innovative student fee protocol put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7th with a completed Financial Need Assessment Form and include one-page description of the intended travel. ACCESS AWARD.</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Ontario University Registrars’ Association (OURA)</td>
<td>1 award of $350</td>
</tr>
</tbody>
</table>

### Physics Travel Scholarship [T0400]

This award is given annually to assist students with travel and/or housing costs associated with attending a semester or more of academic study or co-operative work experience at a recognized university outside Canada. Depending on availability of funds, more than one recipient may be selected for this award. Applications must be accompanied by a one-page description of the planned travel, including budget, to the Chair of the Department of Physics at least two months prior to departure.

- **Donor(s):** Department of Physics
- **Qualification(s):** Student who has completed at least semester 4 of one of the majors in the Physics program with a cumulative average of 80% or greater, and who has obtained a Letter of Permission to attend a University abroad.
- **Amount:** 1 award of $500

### Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]

The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government's OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD.

- **Donor(s):** The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund
- **Qualification(s):** Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
- **Amount:** Several awards of varying amounts to a maximum of $1,000

### University of Guelph Travel Scholarships [T0421]

The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.

- **Donor(s):** University of Guelph
- **Qualification(s):** Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.
- **Amount:** Several awards up to $1,500

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**2012-2013 Undergraduate Calendar**

**Last Revision: Oct. 19, 2012**
Doctor of Veterinary Medicine

Please refer to the General Statement on Awards for:

- Award Eligibility
- ACCESS Awards Eligibility
- Ontario Student Opportunity Trust Fund (OSOTF) Program
- How Awards are Paid

The University reserves the right to amend awards subject to the availability of funds.

Entrance Scholarships

Elaine Harris Memorial Scholarship [E2108]
Established, in honour, by family and friends of Elaine Harris, who in her short lifetime demonstrated exemplary care and love for all animals. The recipient will be selected on the basis of academic performance in the required courses for the D.V.M. application. Preference will be given to the student who has graduated from a program in Animal Health and/or Veterinary Technology. Application is not required.

Donor(s): Shirley and Phil Harris
Qualification(s): Student entering Phase 1 of the D.V.M. program.
Amount: 1 award of $500

Grey County Cattlemen’s Association Entrance Scholarship [E2073]
The Grey County Cattlemen’s Association has donated an entrance scholarship to a student from Grey County entering Phase 1 of the D.V.M. program. Application is not required.

Donor(s): The Grey County Cattlemen’s Association
Qualification(s): Student from Grey County entering Phase 1 of the D.V.M. program with the highest average.
Amount: 1 award of $100

International DVM Student Entrance Scholarships [E0662]
This scholarship was established to assist international Doctor of Veterinary Medicine Program. Application not necessary.

Donor(s): Ontario Veterinary College
Qualification(s): International students entering Phase 1 of the Doctor of Veterinary Medicine Program and registered as part of the international student cohort.
Amount: up to 15 awards of $3,000

Entrance Scholarships with Financial Need

Barry Fisher Memorial Entrance Scholarship [E0802]
The Fisher family has established this award in memory of their son, Barry Fisher, an aspiring veterinarian who tragically passed away in May 2011 at the age of 13, after a long battle with brain cancer. This award is to recognize students with demonstrated financial need who demonstrate consistent, exemplary community volunteer work in support of animal shelter medicine. Apply with a completed Financial Need Assessment Form to Student Financial Services by October 7th and submit a resume with one supporting reference letter indicating involvement in shelter medicine.

Donor(s): Mr. Rael and Mrs. Cheryll Fisher
Qualification(s): Students registered in Phase 1 of the Doctor of Veterinary Medicine Program with demonstrated financial need and volunteer experience in Animal Shelter medicine.
Amount: 1 award of $1,000

Jennifer Margaret Francis Memorial Bursary [E2000]
This award is normally made once every four years and may be held by the student throughout the D.V.M. program providing both financial need continues and academic performance is maintained. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Mrs. Jean Francis
Qualification(s): Students from the Region Ottawa-Carleton that entered Phase 1 of the D.V.M. program in the fall semester with demonstrated financial need.
Amount: 1 award of $6,000 (payable over 4 years of study)

Entrance Bursaries

Dr. Alan Meek Bursary [E2159]
The Jean Rich Foundation has established this award to honour Dr. Alan H. Meek’s ten years of exceptional leadership as Dean of the Ontario Veterinary College, 1994 - 2004. This award will provide a D.V.M. student with $6,000 per year for up to four years provided that academic performance is satisfactory and financial need is demonstrated. This award is offered once every four years and will be awarded to the student that demonstrates the greatest financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. This award is not tenable with other major awards exceeding $5,000.

Donor(s): The Jean Rich Foundation
Qualification(s): Full-time students registered in Phase 1 of the DVM program, with demonstrated financial need.
Amount: 1 award of $24,000 (payable in instalments of $3,000 each semester for up to four years)

Eleanor McEwen Bursaries [E2153]
This award was created in honour of Eleanor McEwan who was a lifelong animal lover. Continuation of this bursary in Phases 2, 3, and 4 is conditional upon satisfactory academic performance and demonstrated financial need. Apply to Student Financial Services with completed Financial Need Assessment Form (N.A.F) by October 7. Students will be considered for this bursary automatically once a N.A.F is submitted. A new recipient will be selected once every four years, unless a current recipient fails to meet the continued eligibility requirement. The award is not tenable with other major awards exceeding $5,000.

Donor(s): The Jean Rich Foundation
Qualification(s): Full-time students registered in Phase 1 of the DVM program, with demonstrated financial need.
Amount: 1 24000 (payable in instalments of $3,000 each registered semester over four years)

Peter Rich Bursaries [E2123]
Established in recognition of Peter Rich who graduated from OVC in 1981 and has dedicated his career to the wellbeing of animals. Continuation of payment is subject to demonstrated satisfactory academic performance and financial need. Apply with a completed Financial Need Assessment Form (N.A.F) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Not tenable with other major awards exceeding $5,000. Two recipients will be selected every 5th year.

Donor(s): The Jean Rich Foundation
Qualification(s): Full-time students registered in Phase 1 of the DVM program, with demonstrated financial need.
Amount: 1 award of $30,000 (payable in instalments of $3,750 each semester over four years)

In-course Scholarships

AAEP/Frank J. Milne Memorial Prize [C2103]
The American Association of Equine Practitioners (AAEP) has established this award in memory of Dr. Frank J. Milne, an inspiring teacher and respected faculty member at the Ontario Veterinary College from 1953 to 1984. Application is not required.

Donor(s): The American Association of Equine Practitioners
Qualification(s): Student who has successfully completed Phase 4 of the D.V.M. program and demonstrated skills in large animal surgery in the course VETM*4930 (Large Animal Clinics).
Amount: 1 award of $500

AI Singleton Hockey Scholarships [10687]
The recipients will be selected based on extraordinary athletic and leadership qualifications. Coaches will nominate students to the Athletic Awards Committee. No application is necessary.

Donor(s): 1957-58 OA-VC Redmen Championship Hockey Team
Qualification(s): Current member of the Men’s Hockey team, who is enrolled in an undergraduate program and who has achieved a minimum 70% average or equivalent during the previous academic year as a student-athlete.
Amount: Numerous awards ranging in value from $750 to $3,500
<table>
<thead>
<tr>
<th>Scholarship Title</th>
<th>Description</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alan H. Meek Prize for Leadership &amp; Citizenship [C2165]</td>
<td>Established by Dr. Alan H. Meek, former Dean of the Ontario Veterinary College, to recognize outstanding leadership and citizenship qualities in a graduating DVM student veterinarian who is expected to be a leader throughout his or her professional career. Nominations will be solicited from all OVC faculty and the three students gaining the most nominations will be voted on by all faculty members. Curriculum vitae will be made available upon request to faculty prior to voting. No application necessary.</td>
<td>Dr. Alan H. Meek</td>
<td>Students who have completed Phase 4 of the DVM program with a minimum 80% program average.</td>
<td>1 2000 and a certificate, and a certificate</td>
</tr>
<tr>
<td>Allen Keele Track and Field Scholarship [I0663]</td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>Allen Keele</td>
<td>In-course student-athlete who is a current member of the Varsity track and field team and has achieved a minimum 70% average in the previous academic year.</td>
<td>1 award of $1,350</td>
</tr>
<tr>
<td>American Animal Hospital Association Prize [C2003]</td>
<td>Donated by the American Animal Hospital Association. Application is not required. Awarded an engraved plaque, a commendaation in the AAHA publication, a five year membership in AAHA and a 5 year AAHA meeting membership.</td>
<td>The American Animal Hospital Association</td>
<td>Student successfully completing Phase 4 of the D.V.M. program. The prize will be awarded based on proficiency in VETM<em>4610 or VETM</em>4660 or VETM*4920 (Small Animal Clinics).</td>
<td>1 Engraved Plaque, a commendation in the AAHA publication, a five year membership in AAHA, and a 5 year AAHA meeting membership</td>
</tr>
<tr>
<td>Andrea Nott Memorial Scholarship [I2158]</td>
<td>This award was established in memory of Andrea Nott, an aspiring veterinarian whose life was cut short by an automobile accident in the summer of 2002. Her compassion and caring marked every activity she undertook. The decision will be based on feedback from the laboratory facilitator, an evaluation by the standardized client, and the student's grade on his/her own assessment of, and reflection on, the videotaped interview. No application required.</td>
<td>Callbeck Animal Hospital</td>
<td>D.V.M. student who has successfully completed Phase 1 and is completing Art of Veterinary Medicine I (VETM*3210) who best demonstrates the elements of effective interpersonal communication through active listening, demonstration of empathy and compassion to the client, and an understanding of the importance of the client's feelings, emotions and values in the clinical interview.</td>
<td>1 award of $750</td>
</tr>
<tr>
<td>Andrew Leslie MacNabb Prize [C2031]</td>
<td>Presented by the O.V.C. Alumni Association. Application is not required.</td>
<td>American Board of Veterinary Public Health</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program with the highest mark in veterinary public health inVETM<em>4620 VETM</em>4680 VETM<em>4940 or VETM</em>4720 (Health Management).</td>
<td>1 award of $200</td>
</tr>
<tr>
<td>Auxiliary to Ontario Veterinarians Scholarship [I2076]</td>
<td>Endowed by the Auxiliary to Ontario Veterinarians, supporting the profession from 1946 to 1990. Application is not required.</td>
<td>The Auxiliary to Ontario Veterinarians</td>
<td>Student who has completed Phase 2 of the D.V.M. program and who has demonstrated the greatest improvement in academic performance between Phases 1 and 2 of the D.V.M. program</td>
<td>1 award of $200</td>
</tr>
<tr>
<td>Aventix Animal Health Prize in Dentistry [C2149]</td>
<td>Provided by Aventix Animal Health. Application is not required.</td>
<td>Aventix Animal Health</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program who has the highest mark in the Dentistry rotation of the course VETM<em>4610 or VETM</em>4660 or VETM*4920 (Small Animal Clinics).</td>
<td>1 award of $100</td>
</tr>
<tr>
<td>Aventix Animal Health Prize in Ophthalmology [C2138]</td>
<td>Provided by Aventix Animal Health. Application is not required.</td>
<td>Aventix Animal Health</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program who has the highest mark in the Ophthalmology rotation of the course VETM<em>4610 or VETM</em>4660 or VETM*4920 (Small Animal Clinics).</td>
<td>1 award of $400</td>
</tr>
<tr>
<td>BarB Crowe &amp; Don Kuzik Memorial Scholarship [I2155]</td>
<td>Established by BarB Crowe as a memorial to her beloved husband, Don Kuzik, and their dogs. In recognition of Don's ethic of friendship, encouragement, teamwork and a lifelong love of animals. Application is not required.</td>
<td>BarB Crowe</td>
<td>Student who has completed Phase 3 of the D.V.M. program with a demonstrated exceptional commitment to teamwork and willingness to support classmates and colleagues, as selected by a vote of the Phase 4 class.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Bayer Summer Student Research Scholarship [I2178]</td>
<td>Submit a joint application by the student and the proposed faculty advisor with a detailed summer research proposal and transcript to the Office of the Associate Dean. Students by January 31st. Selection will be made on high academic achievement and quality of proposed research.</td>
<td>Bayer Animal Health</td>
<td>Full-time students registered in Phase 1 or 2 of the DVM program who are pursuing a research project related to veterinary parasitology or veterinary dermatology during the summer months .</td>
<td>1 award of $8,000</td>
</tr>
<tr>
<td>Beloved Friends Prize [C2007]</td>
<td>Established by Rose McBride. Application is not required.</td>
<td>Mrs. Rose McBride</td>
<td>Student who has completed Phase 4 of the D.V.M. program and who has demonstrated kindness and care in the treatment of animals in the medicine and surgery clinics.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Betty Goldhart Scholarships in Medical Genetics [I2024]</td>
<td>Application not required.</td>
<td>The Estate of Betty Goldhart</td>
<td>Students who have completed Phase 1 of the D.V.M. program and received the first and second highest marks in VETM*3390 (Veterinary Medical Genetics).</td>
<td>1 award of $75 and 1 award of $100</td>
</tr>
<tr>
<td>Bill Taylor Memorial Scholarship [I0280]</td>
<td>Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.</td>
<td>AMF Canada Ltd.</td>
<td>Full-time student who has completed a minimum of 7.5 credits, but no more than 17.5 credits in the Winter term who has a cumulative 80% average or who is in the top 10% of his/her program. The recipient must have demonstrated responsibility and leadership qualities through participation in intramural or intercollegiate athletics.</td>
<td>1 award of $900</td>
</tr>
</tbody>
</table>
IX. Scholarships and Other Awards, Doctor of Veterinary Medicine

CALAM/ACMAL Prize [I2078]
Established by the Canadian Association for Laboratory Animal Medicine/L’Association Canadienne de la Médecine des Animaux de Laboratoire (CALAM/ACMAL). The winning report will be selected on the basis of scientific content, relevance to the field of laboratory animal science and quality of the manuscript. The case report may be written in either English or French, and must be in a format suitable for publication in the Canadian Veterinary Journal. Submit Reports to the O.V.C. Associate Dean’s, Students, by October 7.

Donor(s): Canadian Association for Laboratory Animal Medicine/L’Association Canadienne de la Médecine des Animaux de Laboratoire (CALAM/ACMAL)
Qualification(s): Full-time students in Phase 1, 2, or 3 of the D.V.M. program.
Amount: 1 plaque, 1 award of $250

Canadian Parrot Symposium’s Prize in Avian Studies [C2130]
Endowed by the Canadian Parrot Symposium for an undergraduate student in the D.V.M. program or a graduate student enrolled in a department at the Ontario Veterinary College. The recipient will be selected on the basis of academic achievement and dedication to the discipline. Application is not required.

Donor(s): The Canadian Parrot Symposium
Qualification(s): Students registered in the D.V.M. program pursuing studies dealing with companion birds, their welfare and well-being, and the human/companion bird relationship.
Amount: 1 award of up to $1,500

Canadian Veterinary Medical Association Prize [C2014]
Established by the Canadian Veterinary Medical Association (CVMA). Application is not required. The recipient will be selected by the final year class on the basis of demonstrated leadership abilities.

Donor(s): Canadian Veterinary Medical Association
Qualification(s): Student who has successfully completed Phase 4 of the D.V.M. program.
Amount: 1 Plaque

Canadian Veterinary Medical Association Prize [I2015]
Established by the Canadian Veterinary Medical Association (CVMA). Application is not required.

Donor(s): Canadian Veterinary Medical Association
Qualification(s): Students who have completed Phase 3 of the D.V.M. program. The recipient will be selected by his or her classmates on the basis of leadership and achievement in student affairs.
Amount: 1 award of $800, and a plaque

Charles Duncan McGilvray Prize [C2034]
The Class of O.V.C.’41 has donated this award to honour the memory of Dr. C.D. McGilvray, Principal of the Ontario Veterinary College, 1918-45. Application is not required. One award of $200 and a framed certificate

Donor(s): OVC Class - 1941 (Dr. D.A. Barnum, OVC)
Qualification(s): Student who has successfully completed Phase 4 of the D.V.M. program who by scholarship, leadership, personality, character, and interest made a worthy contribution to the College as an undergraduate and who is the College’s nominee for the Winegard Medal.
Amount: 1 award of $200

Charles M. Baker Memorial Prize [I2006]
Provided by Dr. J.M. Baker of Meaford in memory of Dr. Charles Baker, O.V.C.’23. Application is not required.

Donor(s): Dr. M. Baker and Mrs. Charles Baker
Qualification(s): Student, with the highest relative class standing in any of the Phases, 1, 2 or 3 of the D.V.M. program. Student must have a minimum of a 70% cumulative average.
Amount: 1 award of $200

Chloe Prize in Canine Critical Care [C0795]
Paws for the Cause is a Toronto-based organization that helps pay for surgeries that dogs need but their owners can’t always afford. Selection will be based on the student's performance in the 4th year small animal ICU rotation. In addition to academic performance, the recipient will be chosen based on feedback from supervising faculty. No application required.

Donor(s): Paws for the Cause
Qualification(s): Students graduating from the DVM program who have successfully completed the small animal ICU rotation in Phase 4.
Amount: 1 award of $1,000

College of Veterinarians of Ontario Prize [C2080]
Established by the College of Veterinarians of Ontario. Application is not required.

Donor(s): College of Veterinarians of Ontario
Qualification(s): Student who has completed Phase 4 of the D.V.M. program and has been active in college or university affairs.
Amount: 1 award of $750

CVSA 2000 Leadership Prizes [I2148]
Selection will be based on the quality of activities within the CVSA, CVSA-sanctioned club, or Class Council that have benefited DVM students and/or the broader OVC community. Nominations will be invited from DVM students each year. The nominator will provide a one-page description of the nominee’s activities and the nomination must be accompanied by two further letters of support from individuals who are acquainted with the nominee’s contributions to the Assistant Dean of Student Affairs by January 15. The award may be held only once.

Donor(s): Central Veterinary Students Association
Qualification(s): Full-time students in the DVM program with satisfactory academic standing who have held an executive or leadership position in the CVSA, in a CVSA-sanctioned club, or on a Class Council in the past academic year.
Amount: 2 awards of $250

Deans’ Scholarships [I0323]
This award was established by the Board of Governors’ in 1991 to recognize the academic achievements of students. Each college will be provided an allocation of awards in which to determine recipients of this scholarship. Recipients will be notified each fall by their college’s awards chair. Application not required.

Donor(s): Board of Governors
Qualification(s): Students registered in any degree program who have completed a minimum of 4.0 credits and have been on the Dean’s Honours List for two consecutive semesters in their previous year of studies as defined by the Fall/Winter/Summer sequence.
Amount: 150 awards of $1,000

Dorothea Daniell-Jenkins Memorial Scholarship [I2107]
Friends, family and fellow dog fanciers have established a scholarship in memory of Dorothea Daniell-Jenkins, a respected judge and Terrier breeder. Application is not required.

Donor(s): Friends and family of Dorothea Daniell-Jenkins
Qualification(s): Student who has completed Phase 3 of the D.V.M. program and the externship, who is judged to be the most proficient in small animal medicine and surgery, based on academic performance in Phase 3.
Amount: 1 award of $700

Dr. A. Noel-Smith Memorial Prize [C2090]
Provided by the Oakville Humane Society in honour of Dr. A. Noel-Smith. Application is not required.

Donor(s): Oakville Humane Society
Qualification(s): Student completing Phase 4 of the D.V.M. program with high academic standing, who is a resident of Oakville or the Regional Municipality of Halton, and who has made a contribution to humane activities during the course of studies.
Amount: 1 award of $500

Dr. Bradley Baker Excellence in Communication Prize [I2167]
This award recognizes a student who has the highest ranking in selection process and exceptional competency of the elements of effective interpersonal communication through active listening, of empathy and compassion to the client, and an understanding of the importance of the client's feelings, emotions and values exhibited in the simulated client laboratories in VETM*3220 – Art of Veterinary Medicine II. Students in each practice group will nominate by ballot, the most appropriate student for the award from their practice group. The resulting nominated students will be ranked on the basis of their performance in the end-of-year Objective Structured Clinical Exam (OSCE). In the event of a tied nomination within a practice group, the veterinarian coach for that group will select the most appropriate nominee of the tied students. Application not required.

Donor(s): Dr. David Sutherland
Qualification(s): DVM students who have successfully completed the course Art of Veterinary Medicine II, VETM*3220
Amount: 1 award of $1,000
### Dr. C.K. "Chuck" Roe Memorial Scholarship [I2096]

The Class of O.V.C.'60, together with family, friends and colleagues of Dr. "Chuck" Roe (O.V.C.'50), a respected faculty member of the Ontario Veterinary College and exemplary humanitarian, have endowed this memorial scholarship. Application is not required.

**Donor(s):** Mrs Lillian Roe  
**Qualification(s):** Student who has completed Phase 3 of the D.V.M. program with the highest grade in the swine health management components of the courses VETM*4530 (Advanced Health Management) and VETM*4460 (Food Animal Medicine and Surgery). The recipient's participation in College and other extracurricular activities will also be considered.

**Amount:** 1 award of $500

### Dr. D.J. McLellan Prize [C2035]

Provided by the estate of Dr. D.J. McLellan (O.V.C.'17). Application is not required.

**Donor(s):** Estate of Dr. and Mrs. David John McLellan  
**Qualification(s):** Student who has successfully completed Phase 4 of the D.V.M. program with the highest standing in the courses in which equine contagious diseases are taught: VETM*4450 (Equine Medicine & Surgery), VETM*4930 (Large Animal Clinics) and VETM*4940 (Health Management).

**Amount:** 1 award of $2,000

### Dr. George Rankin Memorial Equine Scholarship [I2053]

Established to honour the memory of Dr. George Rankin. Apply to the O.V.C. Awards Committee with a resume and supporting letters documenting your interest and aptitude in equine medicine and surgery by October 15.

**Donor(s):** Mrs. George Rankin  
**Qualification(s):** Student in the D.V.M. program who is entering Phase 4 (final year), and who has a minimum 'B' average.

**Amount:** 1 award of $1,000

### Dr. J. Grant Savage (OVC '48) Memorial Prize [12140]

This award has been established by family and friends of Dr. Savage who dedicated his life to the health and welfare of farm animals, thus helping to maintain the fabric of rural life in Maine. Application is not required.

**Donor(s):** Family and friends of Dr. J. Grant Savage  
**Qualification(s):** Full-time students that have completed Phase 3 of the D.V.M. program. Selection will be based on high academic standing (at least A-) in the course VETM*4530 (Advanced Health Management). Preference will be given to students who have shown an interest in ruminant medicine, surgery and health management through participation in related activities.

**Amount:** 1 award of $800

### Dr. Jack Lange Memorial Prize [C2122]

Family, friends and colleagues of Dr. Jack Lange (O.V.C.'71) have established this memorial scholarship to recognize his contributions to the equine industry, the mutual respect he shared with his clients, and his zest for life. Application is not required.

**Donor(s):** Family and friends of Dr. Jack Lange, OVC '71  
**Qualification(s):** Student who has successfully completed Phase 4 of the D.V.M. program who has submitted the best case report dealing with an equine clinical condition in the course VETM*4900 (Veterinary Externship).

**Amount:** 1 award of $500

### Dr. John Reeve-Newson Emergency Medicine Prize [C2150]

Presented by the Veterinary Emergency Clinic of Toronto in recognition of the exceptional contributions of Dr. John Reeve-Newson who served as chair of the clinic board for over 25 years, and was instrumental in the development and growth of the facility. Application is not required.

**Donor(s):** The Veterinary Emergency Clinic  
**Qualification(s):** Student completing Phase 4 of the D.V.M. program who has the highest mark in the Emergency & Critical Care Medicine rotation of the course Small Animal Clinics (VETM*4610 or VETM*4660 or VETM*4920).  
**Amount:** 1 award of $1,000

### Dr. Jonathon Bloom (OVC '93) Ambassadorial Prize [C2114]

Jonathan Bloom (O.V.C.'93) and his family have endowed this award. Application is not required.

**Donor(s):** Dr. and Mrs. Howard Bloom  
**Qualification(s):** Student who has successfully completed Phase 4 of the D.V.M. program and completed an approved elective experience outside the institution during their final year. The recipient will be selected on the basis of the evaluation of performance by the elective host and the manner in which the College and the profession were represented. Preference will be given to a student who has demonstrated initiative and motivation in a non-traditional elective experience in veterinary medicine.

**Amount:** 1 award of $400

### Dr. Roy S. Moore Memorial Award [I0046]

Family, friends, professional colleagues and associates who care for laboratory animals have donated this award in memory of Dr. Roy S. Moore (O.V.C.'54), a veterinarian who dedicated his career to the promotion of humane laboratory animal care. Nominations and curriculum vitae of the nominees must be sent to the Associate Dean's, Students, O.V.C., by October 15.

**Donor(s):** Mrs. Shirley Moore  
**Qualification(s):** The recipient will be selected from undergraduate students nominated by the supervisors of all animal care facilities under the purview of the University's Animal Care Committee. The criteria for nomination and awarding the prize are outstanding aptitude for, interest in, and humane care of, research and teaching animals while working in the facility for the past academic year.

**Amount:** 1 award of $350

### Dr. Samuel Downing Stirk Memorial Prize [C2066]

Donated by the family of Dr. Samuel Downing Stirk. Application is not required. One award of $250 and a framed picture.

**Donor(s):** Dr. Gerald D. Stirk  
**Qualification(s):** Student who has successfully completed Phase 4 of the D.V.M. program and judged by the Farm Service Clinicians to have the best understanding of practice, but who rank first and second in the small animal portions of the courses VETM*3430 (Clinical Medicine I) and VETM*3440 (Clinical Medicine II).

**Amount:** 1 award of $600, 1 award of $400

### Dr. Shelly A. McErlane Prize in Veterinary Medicine [C2166]

Established by Dr. Paul and Mrs. Rose Wang to recognize the high quality of care received by their cats from Dr. Shelly McErlane (OVC '95). The recipient will be selected based on high academic achievement in the course Small Animal Clinics (VETM*4610) and an interest in feline internal medicine. Preference will be given to those students with a particular interest in research into the treatment of feline kidney disease or feline endocrinopathies. Apply by letter to the OVC Awards Committee by April 15th.

**Donor(s):** Dr. Paul & Mrs. Rose Wang  
**Qualification(s):** All students having completed Phase 4 of the DVM program.  
**Amount:** 1 award of $1,000

### Dr. W.J. Stinson Scholarship [C2065]

Provided by the Dr. W.J. Stinson Scholarship Fund Committee. Application is not required.

**Donor(s):** Dr. W.J. Stinson Scholarship Fund Committee  
**Qualification(s):** Student who has successfully completed Phase 4 of the D.V.M. program and who is the most proficient in bovine reproduction and obstetrics.

**Amount:** 1 award of $200
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Wendy Parker Prize in Clinical Dermatology, sponsored by Aventix Animal Health</td>
<td>Provided by Aventix Animal Health and recognizing the support of retired professor, Dr. Wendy Parker. Application is not required.</td>
<td>1 award of $250</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program who has the highest mark in the Dermatology rotation of the course VETM<em>4610 or VETM</em>4660 or VETM*4920 (Small Animal Clinics).</td>
<td>Aventix Animal Health</td>
</tr>
<tr>
<td>Elsevier Prize</td>
<td>Provided by Elsevier Science Canada. Application is not required.</td>
<td>2 awards of $1,350</td>
<td>Students completing Phase 3 of the D.V.M. program with the highest average in VETM<em>4460 (Food Animal Medicine and Surgery) and VETM</em>4470 (Medicine and Surgery of the Dog and Cat).</td>
<td>Elsevier Science Canada</td>
</tr>
<tr>
<td>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship</td>
<td>Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes students who are members of the varsity swim team and excel both academically and in a rigorous athletic environment. The recipient will exhibit strong academics and extraordinary athletic qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>2 awards of $1,350</td>
<td>In-course student-athlete who is a current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Ernest Kendall</td>
</tr>
<tr>
<td>F.W. Schofield Prize in Pathology</td>
<td>Awarded by the Ontario Veterinary College, Department of Pathobiology to honour the memory of Dr. F.W. Schofield. An honourable professional who attended Korea in 1916 to teach bacteriology and hygiene at a mission school, did research through his entire career, and to whom we owe the development and present extensive use of the anticoagulant Coumarin in all phases of medicine. Application is not required.</td>
<td>1 award of $400</td>
<td>Student completing Phase 4 of the D.V.M. program with the highest ranking in Pathology.</td>
<td>Dr. F.W. Schofield</td>
</tr>
<tr>
<td>Football Endowment Fund (FEF) Scholarship</td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>various awards of $750 to $3,500</td>
<td>In-course student-athlete who is a current member of the Men's football team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Various University of Guelph donors</td>
</tr>
<tr>
<td>George A. Gray O.A.C. ’51 Varsity Scholarships</td>
<td>Established in memory of George Gray, O.A.C. ’51, a Guelph football lineman and a great player of the game. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Preference will be given to members of the varsity football team. Application is not required. Awarded in the fall semester.</td>
<td>2 awards of $1,250</td>
<td>In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Mrs. George A. Gray</td>
</tr>
<tr>
<td>Holstein Association of Canada Prize</td>
<td>Presented by the Holstein Association of Canada. Application is not required.</td>
<td>1 award of $1,000</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program who has the highest standing in the Ruminant Health Management rotation. Apply by letter providing proof of employment to the Office of the Associate Dean, Student Affairs, Ontario Veterinary College by May 1st of each year.</td>
<td>Holstein Association of Canada</td>
</tr>
<tr>
<td>Hagen Pet Products Small Animal Scholarship</td>
<td>Established to recognize new veterinarians entering food animal practice in Grey or Bruce Counties. In the case of there being more than one suitable applicant, the award will be given to the graduate completing the course Health Management in either the Mixed or Food Animal streams (VETM<em>4680 or VETM</em>4720, respectively) with the highest standing in the Ruminant Health Management rotation. Apply by letter, providing proof of employment to the Office of the Associate Dean, Student Affairs.</td>
<td>various awards of $750 to $3,500</td>
<td>Various University of Guelph donors</td>
<td>Grey County Agricultural Services</td>
</tr>
<tr>
<td>Gryphon Athletic Scholarships</td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>1 award of $1,000</td>
<td>In-course student-athlete who is a current member of a varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews</td>
<td>Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>1 award of $3,500</td>
<td>In-course student-athlete who is a current member of the Varsity Cross Country team and has achieved a minimum 70% average in the previous academic year.</td>
<td>George Ames</td>
</tr>
</tbody>
</table>
International Undergraduate Scholarship [10577]
Established through a student referendum approved by the undergraduate student body, to recognize international students' academic merit along with involvement/leadership activities during their enrollment at the University of Guelph. Financial need will be considered only in the event of a tie and students will be contacted to provide the necessary Financial Need Assessment Form only if necessary. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University and two academic and/or professional references. This award can only be held once by the student.

Donor(s): International Student Organization (ISO)
Qualification(s): Full-time International students (defined as those paying full international student tuition without exemption), who have completed at least 4.0 course credits from the University of Guelph with a minimum cumulative average of 75.
Amount: 2 awards of $2,000

Intervet/Schering-Plough Animal Health Leadership Prize [I2133]
Intervet/Schering-Plough Animal Health has established this prize as part of their commitment to veterinary education. Application is not required.

Donor(s): Intervet/Schering-Plough Animal Health
Qualification(s): Student who has successfully completed Phase 4 of the D.V.M. program and who, based on class nomination and a class vote, in the minds of his or her fellow students continues to demonstrate outstanding leadership, versatility of interests and involvement in community affairs, both within and outside the College and the University.
Amount: 1 award of $750

Intervet/Schering-Plough Animal Health Prize in Bovine Reproduction [C2132]
Intervet/Schering-Plough Animal Health has established this prize as part of their commitment to veterinary education. Application is not required.

Donor(s): Intervet/Schering-Plough Animal Health
Qualification(s): Student successfully completing Phase 4 of the D.V.M. program who has exhibited outstanding performance in the theriogenology and ruminant field service rotations during his or her final year.
Amount: 1 award of $750

J.P.W. Gilman Prize [I2022]
Established by the colleagues and friends of Prof. J.P.W. Gilman, a teacher of Histology at O.V.C. from 1945 to 1975. Application is not required.

Donor(s): Friends and colleagues of J.P.W. Gilman
Qualification(s): Student who has completed Phase 1 of the D.V.M. program with the highest grade in the course VETM*3120 Veterinary Histology.
Amount: 1 award of $200

James and Marjorie Pinkney Studentship Research Scholarship [I2125]
This award was established by Dr. R. James Pinkney, a distinguished alumnus of O.V.C. ’37. Dr. Pinkney was a veterinary practitioner in Cooksville for over forty years and received numerous awards for sportsmanship in agricultural competition and leadership in agriculture. The recipient must fully participate in the Summer Leadership and Research Program. Submit a joint application by the student and the proposed faculty advisor with a detailed summer research proposal and transcript to OVC’s Office of the Associate Dean, Students by January 31st.

Donor(s): Dr. R. James Pinkney
Qualification(s): Full-time students registered in Phase 1 or 2 of the DVM program who will pursue a full-time summer research project which promotes the health and welfare of animals under the supervision of a faculty member.
Amount: 1 award of $4,000

Jean MacDougall Primary Healthcare Prize [C0792]
As determined by the Director, veterinarians and staff of the Hill’s Pet Nutrition Primary Healthcare Centre, the recipient will have consistently demonstrated exceptional skills in providing all-encompassing preventive and wellness healthcare to companion animals and their owners as a team member in the Primary Health Centre. No application is necessary.

Donor(s): The Estate of Jean MacDougall
Qualification(s): Students who have completed Phase 4 of the Doctor of Veterinary Medicine program and achieved each year’s learning outcomes in the Companion Animal Primary Healthcare program of the Ontario Veterinary College.
Amount: 1 award of $1,000

Katherine Elizabeth Long D.V.M. Memorial Prize [C2088]
This memorial scholarship was established by the family of Kathy Long D.V.M. (O.V.C.’88). Application is not required.

Donor(s): Mr. Doug Long
Qualification(s): Student who has successfully completed Phase 4 of the D.V.M. program who strives most consistently to apply the highest standards of veterinary knowledge and skill while showing concern for the animal’s comfort and welfare. The recipient will be selected by a class vote of the final year class.
Amount: 1 award of $500

Kevin Durie Memorial Scholarship [I0653]
Established in memory of Kevin Durie, BA ’93, by his family and friends. Selection will be based on demonstration of outstanding service as a Residence Life staff member and volunteer. Apply by October 31st to the Director, Student Housing Services with a letter of reference from a member of the Residence Life management team and a personal statement of up to 500 words that outlines time commitment and types of volunteer activities undertaken as well as an indication of how their volunteer activities and participation as a Residence Life staff member are valuable and rewarding experiences.

Donor(s): Christine Blake-Durie
Qualification(s): Students who are registered in any degree program on the University of Guelph campus, are a member of Residence Life staff and are academically eligible to continue as a Residence Assistant or as part of Residence Life staff.
Amount: 1 award of $1,000

Kievit Memorial Prize in Surgery [C2027]
The class of ‘66 presents this scholarship in memory of their classmate T.M. Kievit. Application is not required.

Donor(s): OVC ’66
Qualification(s): Student who has completed Phase 4 of the D.V.M. program and is recommended by the instructors in the Department of Clinical Studies on the basis of proficiency in surgery, interest and application in lectures and clinics in surgery.
Amount: 1 award of $100

Lambda Foundation Scholarship in LBGT Studies [I0591]
This award is provided to encourage research on the subject of lesbian, bisexual, gay and transgendered (LBGT) peoples. The scholarship is based upon areas of research pertaining to the history, contributions, and issues by or about LBGT peoples. Preference will be given to an applicant who is involved in the LBGT community as demonstrated by a record of volunteer activities, active civil society memberships, or as attested by a letter of recommendation from a community group, or evidenced by related previous academic pursuits. This scholarship may be awarded to a given student only once. Projects must have been completed or research proposals accepted within the last calendar year. Apply to the Dean of Arts by December 15th including the research proposal or completed project, curriculum vitae, and any supporting letters referencing involvement in the LBGT community and/or faculty support.

Donor(s): Lambda Foundation and other donors
Qualification(s): Students enrolled in a program with a thesis, a research essay, independent research project or course work programs pertaining to lesbian, bisexual, gay and transgendered (LBGT) studies, as broadly defined by the applicant.
Amount: 1 award of $1,000

Leonard Conolly Exchange Student Scholarship [I0446]
Established by students, faculty, staff and friends to honour Prof. Leonard Conolly, professor of drama, Chair of the Department of Drama, 1981-88, and Associate Vice-President Academic, 1988-1992. Apply to the Centre for International Programs by April 5, for visiting during the subsequent Fall or Winter semesters. Selection, by the Centre for International Programs, will be based on assessment of (a) a one-page submission describing the significance of the student visiting Guelph to the program of study at the partner exchange university (b) two faculty references of one-page each, and (c) consistent high performance in the course work completed, as documented by a transcript of program grades to date, submitted by the home university.

Donor(s): Students, staff, faculty and friends of Dr. Leonard Connolly
Qualification(s): Full-time visiting exchange student, registered at Guelph for at least one semester, from any country in the South (a list of eligible countries and exchange partner universities is available in the Centre for International Programs).
Amount: 1 award of $1,000
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lake Thomson Memorial Award [I2119]</strong></td>
<td>1 award of $500</td>
<td>Student enrolled in the D.V.M. program who has submitted an article suitable for publication dealing with the Human-Companion Animal Bond and its relevance in veterinary practice. The article must be completed according to the Canadian Veterinary Journal format for Brief Communications.</td>
<td>Dr. Catherine Thomson-McGhie (O.V.C.’91)</td>
</tr>
<tr>
<td><strong>Major James Rattray Proficiency Prizes [I2054]</strong></td>
<td>3 awards of $200</td>
<td>D.V.M. students completing each of Phases 1, 2, and 3 with the second highest class standings for the Phase.</td>
<td>James Rattray Estate</td>
</tr>
<tr>
<td><strong>Men’s Basketball Scholarships [I0638]</strong></td>
<td>4 awards of $2,500</td>
<td>Men’s Basketball student-athlete who is a current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Anonymous (Alumnus)</td>
</tr>
<tr>
<td><strong>Merial Canada Inc. Prize of Merit [C2051]</strong></td>
<td>1 award of $2,000, 1 commemorative plaque</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program and who has demonstrated proficiency in small animal medicine in the course VETM<em>4610 or VETM</em>4660 or VETM*4920 Small Animal Clinics.</td>
<td>Merial Canada Inc.</td>
</tr>
<tr>
<td><strong>Molly Carrington (O.V.C. ’78) Memorial Prize [C2016]</strong></td>
<td>1 award of $2,000</td>
<td>Student who has the highest standing in the course VETM*3470 (Anesthesiology).</td>
<td>Molly Carrington (O.V.C. ’78)</td>
</tr>
<tr>
<td><strong>Norman W. Simmons Memorial Award [I2124]</strong></td>
<td>1 award of $500</td>
<td>Student who has completed Phase 3 of the D.V.M. program with the highest grade in the course VETM*4480 (Comparative Medicine).</td>
<td>The estate of Norman W. Simmons</td>
</tr>
<tr>
<td><strong>Novartis Animal Health Inc. Scholarship [I2079]</strong></td>
<td>1 award of $500</td>
<td>Full-time students who have completed Phase 3 of the D.V.M program.</td>
<td>Novartis</td>
</tr>
<tr>
<td><strong>Ontario Association of Bovine Practitioners’ Prize [C2093]</strong></td>
<td>1 award of $750</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program and who has demonstrated exceptional proficiency in bovine herd health and an interest in bovine practice, based on performance in VETM*4720 (Health Management).</td>
<td>Ontario Association of Bovine Practitioners</td>
</tr>
<tr>
<td><strong>Ontario Pork Producers’ Marketing Board Prize [C2041]</strong></td>
<td>1 award of $500</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program who shows an active interest in pursuing a career in swine health management.</td>
<td>Ontario Pork Producers’ Marketing Board</td>
</tr>
<tr>
<td><strong>Ontario Veterinary College Class of 2008 Memorial Scholarship [I2169]</strong></td>
<td>1 award of $500</td>
<td>Student enrolled in the D.V.M. program who has demonstrated exceptional proficiency in bovine herd health and an interest in bovine practice, based on performance in VETM*4720 (Health Management).</td>
<td>Ontario Veterinary College Class of 2008</td>
</tr>
<tr>
<td><strong>OSPCA Veterinary Student Prize [I2146]</strong></td>
<td>1 award of $500</td>
<td>Student registered in Phase I or Phase II of the D.V.M. program who shows an active interest in pursuing a career in veterinary medicine.</td>
<td>Ontario Society for the Prevention of Cruelty to Animals</td>
</tr>
<tr>
<td><strong>OTS Delta Club Scholarship [I2039]</strong></td>
<td>1 award of $300</td>
<td>Student who has completed Phase 3 of the D.V.M. program.</td>
<td>Delta Club of Omega Tau Sigma Fraternity</td>
</tr>
<tr>
<td><strong>Ottawa-Carleton 1983 International Ploughing Match (O.V.C.) Scholarships [I2094]</strong></td>
<td>1 award of $1,500</td>
<td>Students from the City of Ottawa who have registered in Phase I or II of the D.V.M. program with a minimum cumulative average of 70%.</td>
<td>Ottawa-Carleton International Ploughing Match Committee 1983</td>
</tr>
</tbody>
</table>
**OVC '75 Prize in Memory of Aki Sasage [C2092]**

Established by classmates and colleagues of Aki Sasage (O.V.C. ’75), a new Canadian of exceptional character and sensitivity, with a keen interest in clinical veterinary medicine. Application is not required.

**Donor(s):** The classmates and colleagues of Aki Sasage, O.V.C.’75

**Qualification(s):** Student who has successfully completed Phase 4 of the D.V.M. program with the highest standing in course VETM*4900 (Veterinary Externship).

**Amount:** 1 award of $700

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**OVC Alumni Association Proficiency Prizes (Convocation) [C2045]**

Presented by the O.V.C. Alumni Association. Application is not required. One 1st place award of $500, one 2nd place award of $300 and one 3rd place award of $200.

**Donor(s):** OVC Alumni Association

**Qualification(s):** Students who have completed Phase 2 and Phase 3 of the D.V.M. program.

**Amount:** 1 award of $500, 1 award of $300, 1 award of $200

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**Pfizer Animal Health Company Prizes [C2055]**

Pfizer Animal Health, Pfizer Canada Inc. presents two prizes to students in the D.V.M. program. Application is not required. One award of $150 (Large Animal Clinics) and one award of $100 (Small Animal Clinics).

**Donor(s):** Pfizer Company of Canada

**Qualification(s):** Students who have successfully completed Phase 4 of the D.V.M. program and who have demonstrated greatest proficiency in large animal medicine in their Large Animal Clinic rotation (VETM*4670 or VETM*4930 or VETM*4710) and greatest proficiency in small animal surgery in their Small Animal Clinic rotation (VETM*4610 or VETM*4660 or VETM*4920)

**Amount:** 1 award of $150, 1 award of $100

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**Robert Walker Memorial Scholarship [I2071]**

This award is presented by O.V.C.'78 in memory of their classmate, Robert Walker. Application is not required.

**Donor(s):** O.V.C.’78

**Qualification(s):** Student who has completed Phase 1 of the D.V.M. program with the highest grade in the animal behaviour component of the course VETM*4720 or VETM*4680.

**Amount:** 1 award of $150

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**Pfizer Scholarship [I2049]**

Pfizer Animal Health, Pfizer Canada Inc. donates two scholarships to students in the D.V.M. program. Application is not required.

**Donor(s):** Pfizer Company of Canada

**Qualification(s):** Students who have completed Phase 2 and Phase 3 of the D.V.M. program. The recipients will be selected by his or her classmates on the basis of scholarship and leadership.

**Amount:** 2 awards of $600

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**Royal Canadian Army Veterinary Corps Prize [I2097]**

In 1923, Colonel C.E. Edgett (O.V.C. 1906), donated the funds from the proceeds of the sale of a horse ambulance, donated by the RSPCA for use in World War I, to establish the Royal Canadian Army Veterinary Corps Prize. Applicants must submit a plan for the week/study visit and a letter from the host to the O.V.C. Awards Committee by the end of Phase 2.

**Donor(s):** Colonel C.E. Edgett (O.V.C. 1906)

**Qualification(s):** Student who has completed Phase 1 of the D.V.M. program planning a work/study visit to an equine facility during the summer between second and third year. In keeping with the original terms of the award, the care and welfare of horses should be a significant component of the proposal. Selection will be based on the merit of the proposal and academic performance.

**Amount:** 1 award of $350

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**Small Ruminant Veterinarians of Ontario Prize [C0729]**

The student who exhibits competency and interest in small ruminant medicine as demonstrated by performance in the Ruminant Health Management I rotation in the course Health Management IV in either the Mixed or Food Animal streams (VETM*4680 or VETM*4720, respectively), the Ruminant Health Management Small Ruminant module in the course Health Management III (VETM*4530), and the small ruminant section in the course Food-Animal Medicine & Surgery, VETM*4460 will be selected. Apply by letter detailing interest and experience in small ruminant medicine to the Office of the Associate Dean, Students, OVC, by May 1st of each year.

**Donor(s):** Small Ruminant Veterinarians of Ontario

**Qualification(s):** Students who have completed Phase 4 of the D.V.M program who have successfully completed Health Management IV in either the Mixed or Food Animal streams (VETM*4680 or VETM*4720, respectively), Health Management III (VETM*4530), and Food-Animal Medicine & Surgery, VETM*4460, and is a student member of the Small Ruminant Veterinarians of Ontario.

**Amount:** 1 award of $200
Sprung Family Men’s Basketball Scholarship [I0672]

Established by Timothy Sprung, CSS BA ’90. Recipients will be selected based on demonstrated athletic and leadership qualities. Coaches will nominate students to the Athletics Committee. Application is not required.

Donor(s): Mr. Timothy Sprung
Qualification(s): In-course student-athlete who is a current member of the Men’s basketball team and has achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $3,500

Stephanie Wilken Volunteer Scholarship [I0449]

Established by the Wilken family in memory of Stephanie Wilken, BA 1995. Apply to Student Financial Services with letter indicating the kind and extent of volunteer activities at the Wellness Centre by October 1. Selection committee is the Senate Committee on Awards on the recommendation of the Student Wellness Educator at the Wellness Centre.

Donor(s): Bev and Darlene Wilken
Qualification(s): Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre. The recipient will be selected on the basis of academic performance in all courses to date and volunteer work at the Wellness Centre.
Amount: 1 award of $1,000

Summit Veterinary Pharmacy Prize in Clinical Pharmacology [C2179]

This award will be presented to a student who has exhibited superior performance in the field of clinical pharmacology with the highest combined ranking in the course Clinical Pharmacology (VETM*4420) and the anesthesiology rotation in Phase 4. Application is not required. In the event of a tie, the recipient will be chosen based on clinical competency in the anesthesia rotation.

Donor(s): Summit Veterinary Pharmacy Inc.
Qualification(s): DVM students who have successfully completed Phase 4
Amount: 1 award of $1,000

United Steelworkers Local 4120 Scholarship [I0293]

Apply to Student Financial Services by January 31 and provide the name of the USWA member and relationship to the applicant. If there is more than one eligible candidate, the award will go to the one who has attained the highest relative class standing in his or her previous full-time semester.

Donor(s): United Steelworkers LU4120
Qualification(s): Student who is a member or former member, or who is from the immediate family of a member of United Steelworkers LU 4120, and who is entering semester 2, 3, or 4 of a degree or diploma program in the Winter semester with a minimum 70% cumulative average.
Amount: 1 award of $1,000

University of Guelph Alumni Legacy Scholarship [I0735]

Funded through donations made to the University of Guelph Alumni Memorial Fund in memory of deceased alumni. The recipient will be selected based on academic achievement and volunteer contributions to the University of Guelph community. Apply to Student Financial Services by May 15 with a cover letter indicating degree, name and year of graduation of alumna/alumnus relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.

Donor(s): Various donors c/o University of Guelph Alumni Association Memorial Fund
Qualification(s): Students registered in any degree or associate diploma program at any campus of the University of Guelph who have completed a minimum of one year of full-time studies with both a minimum cumulative average of 75% and demonstrated volunteer leadership, and who are immediate relatives (child, grandchild, great-grandchild, sibling or parent) of an alumna/us of the University of Guelph or its founding colleges.
Amount: 1 award of $1,000

Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]

Selection will be made on the basis of participation in university activities and in the student's home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

Donor(s): Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family
Qualification(s): Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.
Amount: 2 awards of $400

Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]

Selection will be made on the basis of participation in university activities and in the student's home community as well as qualities of leadership, ambition and initiative. Apply, by May 15, with a one-page summary demonstrating leadership abilities as evidenced through extra-curricular activities to Student Financial Services. Awarded in the Fall semester.

Donor(s): Mr. & Mrs. J. Van Stralen & family and Mr. & Mrs. Hans Van Der Hoeven & family
Qualification(s): Students that have completed a minimum of 2.0 credits, but not more than 7.5 in the Winter term in any degree program who have obtained a minimum of 70% standing.
Amount: 2 awards of $400

Veterinary Business Excellence Scholarship [I2173]

Dr. John Tait, on behalf of the Ontario Veterinary Group & parents, established this award to recognize a student who best demonstrates proficiency and interest in the area of business issues in veterinary medicine. It is given to a student who has demonstrated exceptional competency in the Art of Veterinary Medicine III VETM*4220, including the simulated client interview and their performance in the end-of-year Objective Structured Clinical Exam (OSCE). Apply by letter detailing interest in business activities of the veterinary profession to the Office of the Associate Dean, Students, OVC, in the call for applications in the fall of each year.

Donor(s): Dr. John Tait, Department of Clinical Studies
Qualification(s): DVM students who have successfully completed the course Art of Veterinary Medicine III, VETM*4220
Amount: 1 award of $1,000

W.C. Winegard Medal [C0311]

The W.C. Winegard Medal is the most prestigious graduating award of the University of Guelph. One student will be nominated by each College Awards Committee. The Senate Awards Committee will make the final selection and the medal will be awarded at Convocation in June. Application is not required.

Donor(s): Pfizer Animal Health
Qualification(s): Graduating student who excels both academically and in extracurricular activities.
Amount: 1 award of a Gold medal

W.G. Stevenson Memorial Prize [C2063]

Presented as a memorial to Dr. W. Gordon Stevenson O.V.C.’37. Application is not required.

Donor(s): Pfizer Animal Health
Qualification(s): Student who has successfully completed Phase 4 of the D.V.M. program and who is most proficient in bovine reproduction and obstetrics in the course VETM*4720 (Health Management).
Amount: 1 award of $150

W.J.R. Fowler Prize [C2021]

Wilfreda Fowler Jackson presents a prize in memory of her father, Dr. W.J.R. Fowler. Application is not required.

Donor(s): Wilfreda Fowler Jackson
Qualification(s): Student who has successfully completed Phase 4 of the D.V.M. program who is most proficient in bovine reproduction and obstetrics in the course VETM*4670 or VETM*4930 or VETM*4710
Amount: 1 award of $100

W.N. Vaughan Medal [C0299]

Prospective candidates will be nominated by Senators and the medal winner will be chosen by a committee selected by the Striking Committee. The medal will be awarded at Convocation in June. Application is not required.

Donor(s): Friends of Walter N. Vaughan
Qualification(s): Student senator who has high academic standing and who has made a substantial contribution to student life and to the University, particularly through involvement in and commitment to Senate activities.
Amount: 1 award of a Medal

William P. Weber Football Scholarship [I0634]

Established by Dr. William P. Weber, OVC ’59, football alumnus and Gryphon Hall of Fame Inductee. Recipients will be selected based on extraordinary athletic and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.

Donor(s): Dr. William P. Weber
Qualification(s): In-course student-athlete who is a current member of the Men's Football team and achieved a minimum 70% average in the previous academic year.
Amount: 1 award of $2,500
### In-course Scholarships with Financial Need

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Euclid-Hitachi Scholarships [I4517]</strong></td>
<td>Euclid-Hitachi of Canada Ltd., with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>Students with a minimum cumulative average of 70% with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>2 awards of $1,500</td>
<td>Ms. Caroline Iwasaki</td>
<td>Students registered in the DVM program who have successfully completed the course Veterinary Externship VETM*4900 with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>2 awards of $3,500</td>
</tr>
<tr>
<td><strong>Graham Family Incentive Scholarship [I4506]</strong></td>
<td>Harvey Graham O.A.C. ’39 with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>Students entering the fourth year of a four year degree program, maintaining at least a 70% program average and demonstrating financial need, who have previously received the Harvey Graham Bursary. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>1 award of $4,000</td>
<td>Ontario Veterinary College Alumni Association</td>
<td>Full-time students in Phase 3 or Phase 4 of the DVM program with demonstrated financial need.</td>
<td>2 awards of $1,000</td>
</tr>
<tr>
<td><strong>Howard N.B. Dorfman Scholarship [I2520]</strong></td>
<td>The family of the late Howard N.B. Dorfman with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>Student in Phase 4 of the D.V.M. program and who has demonstrated the most outstanding achievement in veterinary neurology, based on performance in VETM*4830 (Neurology rotation of the course Small Animal Clinics). Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>1 award of $250</td>
<td>Ontario Veterinary College Alumni Association</td>
<td>Full-time students in the Phase 2 or Phase 3 of the D.V.M. program, with at least a 70% program average, and demonstrated financial need are eligible. Selection will be based on greatest financial need.</td>
<td>1 award of $800</td>
</tr>
<tr>
<td><strong>John B. Walkden and Malcolm T. Bond Prize [I2512]</strong></td>
<td>Estate of John B. Walkden with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>Full-time students in the D.V.M. program who has successfully completed the course Veterinary Externship (VETM*4900). Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>1 award of $3,100</td>
<td>The Class of O.V.C. ’59</td>
<td>Students enrolled in Phase 2 of the DVM program at the Ontario Veterinary College who have demonstrated financial need.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>John Embry Family Scholarship [I4549]</strong></td>
<td>Mr. John Embry with matching funding through the Ontario Trust for Student Support program</td>
<td>Students-athletes who are members of an OUA varsity team with a minimum 70% average in the previous academic year and demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
<td>2 awards of $3,500</td>
<td>Student Housing Services</td>
<td>Students registered in any degree program with a minimum 70% average who have successfully attained a Residence Life Staff position with Student Housing Services and who are receiving OSAP or financial assistance through their provincial/territorial student loan program.</td>
<td>2 awards of $500</td>
</tr>
</tbody>
</table>

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**Murray Iwasaki Scholarship in Companion Animal Health [I2513]**

Established by Ms. Caroline Iwasaki, in memory of her brother Murray Iwasaki, O.V.C. ’73, with the assistance of the Ontario government’s OSOTF program. The recipient will have been judged to be proficient in companion animal medicine and surgery during the externship, based on the host practitioner’s evaluation. Apply with a completed Financial Need Assessment Form (N.A.F.), to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. Awarded in the Winter semester. ACCESS AWARD

**Ontario Veterinary College Alumni Association Scholarship [I2180]**

Established through the generosity of Ontario Veterinary College Alumni and supporters in order to encourage philanthropy in future alumni. The award will be given to the student with the highest cumulative average. Apply with a completed Financial Need Assessment Form to Student Financial Services by October 7.

**OVC Class of 1977 Memorial Scholarship [I2150]**

Established by the Class of O.V.C. ’77, with the assistance of the Ontario government’s OSOTF program, established this scholarship after the tragic and untimely death of their classmate, Brian Mills, as a gesture of their great esteem for him. The Class also wishes that the scholarship honour all their classmates. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

**OVC ’59 50th Anniversary Leadership Scholarship [I2174]**

The class of O.V.C. ’59 has established this annual $1,000 scholarship in honor of their 50th anniversary of graduation from the College. Apply by October 7th with a Financial Needs Assessment Form to Student Financial Services. In addition, a letter outlining extra-curricular involvement and highlighting leadership experience while in Phase 1 should be submitted to the Office of the Associate Dean, Students, OVC by October 7th.

**Residence Life Staff Scholarship [I0697]**

The class of O.V.C. ’59 has established this annual $1,000 scholarship in honor of their 50th anniversary of graduation from the College. Apply by October 7th with a Financial Needs Assessment Form to Student Financial Services. In addition, a letter outlining extra-curricular involvement and highlighting leadership experience while in Phase 1 should be submitted to the Office of the Associate Dean, Students, OVC by October 7th.
Returning Student Residence Scholarship [I0696]

Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students apply by completing the online Returning Student Residence Scholarship form, submit a one-page summary of community involvement, and submit a letter of support from a residence life staff member or member of Residence Student Government by March 1 to the Director of Student Housing. This is an award conditional upon the student remaining in a Guelph main campus residence for two full semesters to receive the entire $500 award, or one full semester to receive $250 of the award.

**Donor(s):** Student Housing Services  
**Qualification(s):** Students registered in any degree program who plan to reside in residence in second, third or fourth year who are receiving OSAP or financial assistance through their provincial/territorial student loan program and have a minimum 70% average.

**Amount:** 3 awards of $500

Robert, Louis and Helen Shaw Memorial Degree Scholarships [I4520]

Established by the Shaw Scholarship Committee with the assistance of the Ontario government's OSOTF program. Apply with a letter, including a summary of local agricultural activities and a completed Financial Need Assessment Form (N.A.F.), to Student Financial Services by October 7. ACCESS AWARD

**Donor(s):** The Shaw Scholarship Committee with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students registered in the BASc, B.Comm. in Agricultural Business, B.Sc.(Agr.) or D.V.M. programs studying agriculture, horticulture, equine studies, food and nutrition or veterinary sciences with demonstrated financial need, a 70% cumulative average and involvement in local agricultural activities. Preference will be given to first year students from Peterborough County. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** several awards of up to $2,500

Tara Lynn Giuliani Memorial Scholarship [I0375]

In memory of Tara Lynn Giuliani, a bright young woman, who did not let her blindness stand in the way of her studies at the University of Guelph. Apply with a letter and a completed Financial Need Assessment Form to Student Financial Services by October 7.

**Donor(s):** The Giuliani Family  
**Qualification(s):** Most academically promising applicant with a demonstrated disability and having financial need. Preference will be given to a visually impaired student.

**Amount:** 1 varying amounts

University of Guelph Retiree Association Degree Scholarship [I0569]

The University of Guelph Retiree Association established this $1,500 scholarship in 2007 to acknowledge in-course student achievement. The student having the highest cumulative average will be selected and in the event of a tie, the student with the highest average in the last two semesters of full-time studies will be chosen. Apply by May 15th to Student Financial Services with a letter indicating name of and relationship to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.

**Donor(s):** University of Guelph Retirees Association (U.G.R.A.)

**Qualification(s):** Students with a minimum 75% cumulative average registered in a degree program who are related to a retiree of the University of Guelph as child, grand child or great grand child.

**Amount:** 1 award of $1,500

Walter and Marion MacDougald Scholarship [I4530]

Established by the family of Walter and Marian MacDougald on the 50th wedding anniversary of their parents, in recognition of their gift of life-long learning to their five children, with the assistance of the Ontario government's OSOTF program. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form (N.A.F.) and a letter that includes a statement that outlines your interests in food supply, utilization, farmland conservation or woodlot management. Preference will be given to students enrolled in a program involved in food supply or utilization, farmland conservation or woodlot management. ACCESS AWARD.

**Donor(s):** Doug MacDougald, D.V.M., with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students demonstrating financial need with a minimum of 10.0 credits and less than 15.0 credits and who are in the following programs/majors/minors: BASc, BSc(Agr), BSc(Env), BSc(Food Science, Animal Biology, Nutrition, or Forest Science), or D.V.M., having a minimum cumulative average of 70%. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $750

In-course Bursaries

**Allan Cawley Bursary [I2501]**

Established by Dr. Allan Cawley, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

**Donor(s):** Established by Dr. Allan Cawley with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time D.V.M. and graduate students in the Ontario Veterinary College with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 3 awards of $500

**Auxiliary to Ontario Veterinarians Bursary [I2077]**

Endowed by the Auxiliary to Ontario Veterinarians, supporting the profession from 1946 to 1990. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** The Auxiliary to Ontario Veterinarians

**Qualification(s):** Undergraduate veterinary students who have a record of satisfactory academic performance and who have demonstrated need of financial assistance.

**Amount:** 1 award of $300

**Bette Stephenson Accessibility Bursary [I3054]**

In recognition of the work of Dr. Bette Stephenson in supporting students with learning disabilities, the University of Guelph offers bursaries to students who have demonstrated financial need and who have a learning disability. These bursaries will be used to offset the costs of a required assessment, or the purchase of a computer that is required to support their learning needs. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) and a letter from the student's advisor in the Centre for Students with Disabilities in support of this request. These applications will be addressed throughout the semester to assist students when the need is required.

**Donor(s):** University of Guelph

**Qualification(s):** Undergraduate students who have demonstrated financial need and who have a learning disability. Students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents.

**Amount:** 3 awards to a maximum of $1,500

**Birks Family Foundation Bursary [I3002]**

Apply by October 7 to Student Financial Services with a completed University of Guelph Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

**Donor(s):** Birks Family Foundation

**Qualification(s):** Students registered in any program with demonstrated financial need as determined by the University of Guelph Financial Need Assessment procedures.

**Amount:** 1 award of $1,000

**Brinson Partners Inc. Bursaries [I3526]**

Brinson Partners Inc., with the assistance of the Ontario government's OSOTF program, has established these bursaries. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

**Donor(s):** Brinson Partners Inc. with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500

**Burnbrae Farms Bursaries [I3525]**

Established by Burnbrae Farms, with the assistance of the Ontario government’s OSOTF program to assist students with financial need to continue their studies as full-time students. Apply with a completed Financial Need Assessment Form (N.A.F.) and a statement explaining interests in poultry science to Student Financial Services by October 7. ACCESS AWARD.

**Donor(s):** Burnbrae Farms with matching funding through the Ontario Student Opportunities Trust Fund

**Qualification(s):** Full-time students with demonstrated financial need. Preference will be given to students with a demonstrated interest in poultry science. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $1,500
Canadian Animal Health Institute Bursary [12507]

Established by the Canadian Animal Health Institute, with the assistance of the Ontario government’s OSOTF program. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD

Donor(s): Canadian Animal Health Institute with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time student in the D.V.M. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $575

Canadian Kennel Club Bursaries [12111]

The Canadian Kennel Club provides funds for a limited number of bursaries to assist students in the D.V.M. program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): The Canadian Kennel Club
Qualification(s): Students in the D.V.M. program with demonstrated financial need.

Amount: Several varies

Class of ’72: 25th Reunion Bursaries [13512]

Established by the Class of ’72: 25th Reunion Fund with the assistance of the Ontario government’s OSOTF program to support students who wish to study full-time. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Class of ’72: 25th Reunion with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 3 awards of $1,000

Dean’s Access Bursaries [12502]

Established by Alumni and friends of O.V.C., with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Alumni and Friends of OVC with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in a program offered by the Ontario Veterinary College with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTE award (see General Statements on Awards).

Amount: Several awards of varies amounts

Dr. Francis J. Fitzgerald Memorial Bursaries [12082]

Established by family, friends, colleagues and clients of Dr. Francis J. Fitzgerald (O.V.C./37) to honour his commitment to veterinary medicine. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Mrs. Virginia Fitzgerald
Qualification(s): Students enrolled in the D.V.M. program who have a record of satisfactory academic performance and have demonstrated financial need.

Amount: Several varies

Dr. M. Adrian Gross Memorial Bursary [12106]

Established by family, friends and colleagues of Dr. M. Adrian Gross (O.V.C./54), a respected veterinarian and a valued employee of the Food and Drug Administration and the Environmental Protection Agency. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Dora Gross
Qualification(s): Students enrolled in the D.V.M. program with a satisfactory academic performance and a demonstrated need of financial assistance.

Amount: 1 award of $500

Dr. Martin DeForest Memorial Bursary [12157]

Established by family and friends of Dr. Martin DeForest, OVC ’77 in his memory. Dr. DeForest was a leader in the veterinary profession, and was widely recognized for his compassion and commitment to animal health. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Friends and Family of Dr. Martin DeForest
Qualification(s): Students enrolled in the D.V.M. program who have a record of satisfactory academic performance and have demonstrated financial need.

Amount: 1 award of $450

Dr. R.C. Croucher Bursary [12519]

Established by Dr. Ross C. Croucher, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Ross C. Croucher, OVC ’50 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in the D.V.M. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $800

Edith B. Williams Bursary [12072]

This bursary is provided in memory of Dr. Williams, O.V.C./41. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Friends of Family of Edith B. Williams
Qualification(s): Students enrolled in the D.V.M. program who have a record of satisfactory academic performance and have demonstrated financial need.

Amount: 1 award of varying amounts

Elizabeth Burton Bursaries [13503]

Mrs. Elizabeth Burton, with the assistance of the Ontario government’s OSOTF program, provides bursaries to students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Mrs. Elizabeth Burton with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students in second, third or fourth year with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: Several awards of varying amounts

Essex County Veterinary Association Bursary [12529]

Established by the Essex County Veterinary Association, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.

Donor(s): Essex County Veterinary Association with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): D.V.M. student with demonstrated financial need. Preference will be given to a student from Essex County. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: 1 award of $500

Gloria Lemieux Bursaries [12156]

Established by the late Gloria Lemieux through a will bequest, these bursaries recognize her concern for animals and desire to help students pursuing veterinary studies. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Estate of Gloria Lemieux
Qualification(s): Students enrolled in the D.V.M. program who have a record of satisfactory academic performance and demonstrated need of financial assistance.

Amount: Several awards of varying amounts
<table>
<thead>
<tr>
<th>Grant and Muriel Crittenden Bursaries [12018]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> The estate of Grant and Muriel Crittenden</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Students enrolled in the D.V.M. program who have a record of satisfactory academic performance and have demonstrated financial need.</td>
</tr>
<tr>
<td><strong>Amount:</strong> Several varies</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Grant Misener Bursaries [12538]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Andrew Grant Misener (O.V.C.'38), alumnus of the University of Guelph, with the assistance of the Ontario government's OSOTF program, has established an endowment fund for bursaries to provide financial assistance to students in the D.V.M. program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Dr. Andrew Grant Misener (O.V.C.'38) with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Students in the D.V.M. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td><strong>Amount:</strong> Several varies</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Gryphon Investment Council Bursaries [13513]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Established by Gryphon Investment Counsel, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Gryphon Investment Council Inc. with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td><strong>Amount:</strong> 2 awards of $1,500</td>
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<thead>
<tr>
<th>Guelph Compassionate Health and Dental Bursary [13061]</th>
</tr>
</thead>
<tbody>
<tr>
<td>This bursary has been established and approved by the Student Health and Dental Committee to assist students facing unforeseen health and dental needs above and beyond the benefits offered through the University of Guelph’s mandatory Student Health Plan, University of Guelph’s Student Dental Plan or comparable personal dental plan. Apply to Student Financial Services, Manager, Student Awards, with a completed Financial Need Assessment form with documentation and cost estimates from a health or dental practitioner identified in the Regulated Health Professions Act/RHPA. Student must provide a statement detailing total claim, current coverage and remaining costs. Applications will be reviewed throughout the semester to handle emergencies immediately. Students may only receive the bursary once per academic year.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Student Health and Dental Plan Reserve</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Students currently registered at the University of Guelph and/or be enrolled under the University of Guelph mandatory Student Health Plan. The student must require treatment for an unforeseen health and dental emergency, which is not currently or completely covered by the Student Health Plan, Student Dental Plan or comparable personal dental plan, and requires immediate intervention and treatment for which the consequences of not receiving treatment may impact on the student’s academic progress.</td>
</tr>
<tr>
<td><strong>Amount:</strong> Several varies to a maximum $1,500</td>
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<thead>
<tr>
<th>Guelph Student Assistance Program [13056]</th>
</tr>
</thead>
<tbody>
<tr>
<td>These bursaries have been established and approved by undergraduate students through student referendum to assist undergraduate and University of Guelph campus diploma students in financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLP). Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Undergraduate Students</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Full-time undergraduate students registered in any degree program with demonstrated financial need.</td>
</tr>
<tr>
<td><strong>Amount:</strong> Several awards of varying amounts up to $1,000</td>
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<thead>
<tr>
<th>Harriet Bilbey Bursary [12144]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Estate of Harriet Bilbey</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Student enrolled in the D.V.M. program with a record of satisfactory academic performance and demonstrated financial need.</td>
</tr>
<tr>
<td><strong>Amount:</strong> 2 awards of $900</td>
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<tr>
<th>Helen Davidson Memorial Bursary [12509]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Established by Gladys M. Davidson, as a memorial to her beloved sister Helen, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Established by Gladys M. Dawson with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Full-time students in the D.V.M. program who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td><strong>Amount:</strong> 8 awards of $1,000</td>
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<tr>
<th>Hill’s Bursary [12511]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Established by Hill’s Pet Nutrition, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Hill’s Pet Nutrition Canada Inc. with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> D.V.M. student with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,500</td>
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<tr>
<th>Howard and Myrtle Rogers Bursaries [13537]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government’s OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> The Estate of Howard and Myrtle Rogers with matching funding through the Ontario Student Opportunities Trust Fund</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Students with demonstrated financial need. Preference will be given to students from Wellington County. Students are encouraged to apply for an award in each year of study. The award may have been held in previous years but students must demonstrate on-going financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td><strong>Amount:</strong> 10 up to $2,000</td>
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<thead>
<tr>
<th>International Emergency Medical Aid Assistance [13059]</th>
</tr>
</thead>
<tbody>
<tr>
<td>The University of Guelph provides support to International undergraduate students that are faced with unexpected, or unforeseen financial shortfalls due to a medical issue not covered by UHIP or the Student Dental/Medical insurance plans. Students should apply to the International Student Advisor, in the Centre for International Programs office, by completing an International Student Financial Need Assessment Form (N.A.F.) and submitting documentation to support the medical issue. These bursaries are awarded on an on-going basis.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> University of Guelph</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Any International student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.</td>
</tr>
<tr>
<td><strong>Amount:</strong> Several awards of varying amounts</td>
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<thead>
<tr>
<th>International Student Bursaries [13009]</th>
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</thead>
<tbody>
<tr>
<td>Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment form for International Students.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Mrs. Norma L. Valeriote</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Students who are citizens of Third World countries, as defined by the United Nations, who are registered in a degree or diploma program and who demonstrate financial need.</td>
</tr>
<tr>
<td><strong>Amount:</strong> Several of varying amounts</td>
</tr>
</tbody>
</table>
Irvine and Grace Black Memorial Bursary [I3051]
Established in memory of Irvine and Grace Black, by friends and family to recognize their many contributions to young people. Irvine, a well-known sheep breeder, was a judge at College Royal and the Royal Winter Fair for over fifty years, and Grace was active in the Women's Institute and the Fergus Fall Fair. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) and a letter outlining involvement in the 4-H Club and/or a Women's Institute by October 7.
Donor(s): Family and friends of Irvine and Grace Black
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to applicants who are, or have been, active in the 4-H Club and/or a Women's Institute.
Amount: 1 award of $500

Lady Glencora Bursaries [I2586]
Established by the Rathlyn Foundation, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): The Rathlyn Foundation with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in the D.V.M. program and students in the honours B.Sc. (Bio-Med) program who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: Several awards up to $5,000

Lesley Lewisohn Stewart Bursary [I2064]
Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
Donor(s): Mr. Neville Lewisohn
Qualification(s): Students enrolled in the D.V.M. program who have a record of satisfactory academic performance and have demonstrated financial need.
Amount: Several varies

Margaret Emma (Peggy) and Donald Alan Melton Bursaries [I2503]
Established by Donald Alan Melton, with the assistance of the Ontario government's OSOTF program, as a memorial to his beloved wife, Peggy, and in recognition of her lifelong devotion to animals and concern for their welfare. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): Established by Donald Alan Melton with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students registered in the D.V.M. program and completed Phase 1 of their program with satisfactory academic performance. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 4 awards of $1,000

Mary I. Whitelock Bursaries [I3242]
Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government's OSOTF program, to assist students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD.
Donor(s): Estate of Mary I. Whitelock with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 13 awards of $2,000

Maude Loretta Trapp Bursaries [I2099]
Maude Loretta Trapp, a humanitarian and lover of animals has established this bursary for undergraduate veterinary students who are residents of North Western Ontario. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
Donor(s): The estate of Maude Loretta Trapp
Qualification(s): Students enrolled in the D.V.M. program who are residents of North Western Ontario (whole district of Thunder Bay and all the territory west to the Manitoba border), who have a record of satisfactory academic performance and have demonstrated financial need.
Amount: Several varies

Ontario Co-operatives R.P. Forshaw Bursary [I3013]
The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw have established this bursary. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7 and a letter indicating membership of co-op or credit unions.
Donor(s): The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forshaw
Qualification(s): Undergraduate students who have financial need. Preference may be given to candidates who have been or are members of a co-operative or credit union.
Amount: 1 award of $400

Ontario Veterinary Medical Association Bursary [I2505]
Established by the Ontario Veterinary Medical Association with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): Ontario Veterinary Medical Association with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time D.V.M. student with demonstrated financial need. Preference will be given to OVMA student members. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $500

OVC '39 ACCESS Bursary [I2591]
Established by the Class of O.V.C.'39, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date. ACCESS AWARD
Donor(s): OVC '39 with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time students in the D.V.M. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 1 award of $1,000

OVC '48 Bursary [I2116]
Established by the class of O.V.C.'48 and their families to assist undergraduate veterinary students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
Donor(s): Class of O.V.C.'48
Qualification(s): Students enrolled in the D.V.M. program with a record of satisfactory academic performance and demonstrated financial need. Preference will be given to students who have completed Phase 2 of the D.V.M. program.
Amount: Several varies

OVC '52 Bursary [I2143]
Established by the class of O.V.C.'52 in memory of deceased classmates to assist undergraduate veterinary students with demonstrated financial need. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.
Donor(s): The Class of O.V.C.'52
Qualification(s): Students enrolled full-time in the D.V.M. program with a record of satisfactory academic standing and demonstrated financial need.
Amount: 1 award of $1,500
<table>
<thead>
<tr>
<th>Award Name</th>
<th>Description</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
<th>Terms for Receipt of an Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVC '55 Bursaries [12508]</td>
<td>Established by the Class of OVC '55, with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services, by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
<td>5 awards of $500</td>
<td>Full-time students in the D.V.M. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>OVC '55 with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td>OVC '49 and Dr. Ray Cormack Bursaries [12504]</td>
<td>Established by the Class of OVC '49 and Dr. Ray Cormack (OVC '49), with the assistance of the Ontario government's OSOTF program, to commemorate the 50th anniversary of their graduation from the college. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
<td>5 awards of $1,000</td>
<td>Full-time students in the Doctor of Veterinary Medicine program who have demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>OVC '49-Cormack Fund with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td>Pearl and Percy Kaine Bursaries [12500]</td>
<td>Pearl and Percy Kaine, Guelph landowners and dairy farmers who had an interest in horses, have provided financial assistance to veterinary students through the Pearl and Percy Kaine Bursaries with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
<td>4 awards of $2,500</td>
<td>One award will be given annually to one student in each of the four years of the D.V.M. program who has demonstrated the greatest financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Pearl and Percy Kaine Bursaries with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td>Pfizer Bursaries [12506]</td>
<td>Provided by Pfizer Canada Inc., with the assistance of the Ontario government's OSOTF program. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
<td>3 awards of $1,000</td>
<td>Full-time students in the D.V.M. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Pfizer Canada Inc. with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td>Robert Auger Humanitarian Bursary [13058]</td>
<td>This award, of up to $500, has been established through the generosity of staff in the Office of Registrarial Services, family and friends of Robert Auger, a former Associate Registrar at the University of Guelph. It is intended as an emergency fund to assist students who unexpectedly find themselves in difficult financial circumstances, to provide grocery, and textbook vouchers. Apply by completing a Financial Aid Assessment form and letter to the Assistant Registrar, Financial Aid, Student Financial Services.</td>
<td>Several grocery vouchers or book vouchers</td>
<td>Students registered in a degree program.</td>
<td>Office of Registrarial Services</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td>Robinson Memorial Bursary [12118]</td>
<td>Provided in memory of Dr. Gerry Robinson, a popular teacher and exemplary scientist in the Department of Biomedical Sciences at the Ontario Veterinary College (1957-1992) by family, friends and colleagues. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
<td>Several varies</td>
<td>Student enrolled in the D.V.M. program with a record of satisfactory academic performance and demonstrated financial need.</td>
<td>Mrs. Barbara Robinson</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td>Scotiabank Bursaries [13532]</td>
<td>Established by Scotiabank, with the assistance of the Ontario government's OSOTF program, to assist students with financial need to continue their studies as full-time students. Distributed in the Winter semester. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
<td>2 awards of $1,500</td>
<td>Full-time students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Scotiabank with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td>Shirley Endean Bursaries [13570]</td>
<td>These bursaries were created from gifts from multiple donors, with a leading legacy gift from Ms. Shirley Endean, and with the aid of the OTSS matching program. Apply by October 7 to Student Financial Services, with a completed Financial Need Assessment Form. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
<td>Several varies</td>
<td>Students registered in any degree program with demonstrated financial need.</td>
<td>Estate of Shirley E. Endean &amp; multiple donors with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td>Sigmund Samuel Goodman Memorial Bursary [12950]</td>
<td>Friends and family of Sigmund Samuel Goodman, humanist and lover of animals, have endowed funds for a memorial bursary. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
<td>Several varies</td>
<td>Students enrolled in the D.V.M. program with a satisfactory academic performance and a demonstrated need of financial assistance.</td>
<td>Dr. Robert Bennett</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td>Thibeault Bursaries [12067]</td>
<td>Established by Dr. C. Thibeault, a former student of O.V.C. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
<td>Several varies</td>
<td>Students enrolled in the D.V.M. program who have a record of satisfactory academic performance and have demonstrated financial need.</td>
<td>Dr. C. Thibeault</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td>University of Guelph Access Bursaries [13522]</td>
<td>Provided by alumni and friends of the University, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply by completing a Financial Aid Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.</td>
<td>Several varies</td>
<td>Students enrolled in the D.V.M. program with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Alumni and Friend of the University of Guelph with matching funding through the Ontario Student Opportunities Trust Fund</td>
<td>ACCESS AWARD</td>
</tr>
</tbody>
</table>
University of Guelph Alumni Association Access Bursaries [I3523]
Established by the University of Guelph Alumni Association, with the assistance of the Ontario government's OSOTF program, to support students who wish to study full-time but who need financial support to do so. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date. ACCESS AWARD.

Donor(s): University of Guelph Alumni Association with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Full-time in-course students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: 2 awards of $1,000

University of Guelph Child Care Bursaries [I3053]
In order to provide accessible child care to students with (a) child(ren), the University of Guelph offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph
Qualification(s): Students, supporting (a) child(ren) who demonstrate greatest financial need, to offset the costs of child care. To be eligible, undergraduate students must be full-time (as defined by OSAP regulations) and Canadian citizens or permanent residents with demonstrated financial need.
Amount: Several awards of up to $2,000

University of Guelph In-course Bursaries (MET-TR-UG) [I3037]
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph
Qualification(s): Any international student registered in a degree program at the University of Guelph with a minimum registration of 1.50 course credits.
Amount: Several awards ranging in value from $100 to $4,000

University of Guelph In-course Bursaries (NON OSAP TR) [I3047]
The University of Guelph offers in-course bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph
Qualification(s): Undergraduate students registered for full-time studies (as defined by OSAP) in a degree program with demonstrated financial need.
Amount: Several awards to a maximum of $500

University Police Bursaries [I3019]
The University Police have made available a number of bursaries. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7. Students will be considered for this award automatically once a N.A.F. has been submitted by the deadline date.

Donor(s): The University Police
Qualification(s): Full-time undergraduate with demonstrated financial need.
Amount: Several of various amounts

University Student Assistance Program [I3087]
These bursaries have been established and approved by the University of Guelph to assist undergraduate and University of Guelph campus diploma students in financial need. Apply to Student Financial Services with a completed Financial Need Assessment Form (N.A.F.) by October 7.

Donor(s): University of Guelph
Qualification(s): Full-time undergraduate students registered in any degree program with demonstrated financial need. Preference will be given to students who are not eligible for provincial and/or federal assistance programs such as Ontario Student Assistance Program (OSAP) and/or Canada Student Loan Program (CSLPP).
Amount: Several awards of various amounts to a maximum of $1,000

In-course Travel Grants

Arthur D. Latornell Undergraduate Travel Grants [T0058]
An endowment fund established in memory of Arthur D. Latornell, O.A.C. '50, who had a life-long professional career in resource management and conservation and a special interest in helping young people. The funds are given to provide twenty-five travel grants. These travel grants are offered to assist students in attending conferences, courses, co-op student exchanges or study abroad programs in these areas. Students may receive this grant only once. Apply to Student Financial Services. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Up to 80% of estimated travel costs to a maximum of $1,000.

Donor(s): The Estate of Arthur D. Latornell
Qualification(s): Students travelling as part of their program who have completed a minimum of 4.0 credits with at least a 70% average and whose primary area of interest is related to natural resources management, environmental science, conservation, soil science and/or rural development. Students will be asked to submit a one-page review of their travel experience, including the role the travel grant played, to the University after completion of the travel.
Amount: Several up to a maximum of $1,000

Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]
The Canadian Friends of the Hebrew University of Jerusalem, with the assistance of the Ontario government’s OSOTF program, have established these travel scholarships to assist students study at the Hebrew University of Jerusalem. Apply with a completed Need-Based Travel Grant Application to Student Financial Services. ACCESS AWARD. Up to three awards totalling $7500.

Donor(s): Canadian Friends of the Hebrew University in Jerusalem with matching funding through the Ontario Student Opportunities Trust Fund
Qualification(s): Undergraduate degree students in either the second or third year of study. Applicants must provide documentation that they have approval from the Hebrew University of Jerusalem (i) to take courses and (ii) for the period of the visit. Students must also arrange appropriate University of Guelph approvals for a “Letter of Permission” prior to applying. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).
Amount: A number of awards to a maximum of $7,500

Dr. Tom Sanderson Travel Grant in Swine Health [T0795]
Established to recognize the contributions of Dr. Tom Sanderson to the veterinary profession and to student veterinarians at the Ontario Veterinary College. The recipient will be chosen based on his or her demonstrated strong aptitude and interest in swine health. The award must be used to attend the annual Allen D. Leman Swine Conference or the Annual Meeting of the American Association of Swine Veterinarians during Phase 4 of their program. Apply by letter detailing interest and involvement in swine health, including two letters of support, to the Office of the Associate Dean, Students, OVC, by May 15. Selection will be based on demonstrated strong aptitude and keen interest in swine health.

Donor(s): The Pottruff Family Foundation
Qualification(s): Students who have completed Phase 3 of the DVM program and have completed the Swine Health Management module in the course Health Management III (VETM4530) and who are planning to attend the annual Allen D. Leman Swine Conference or the Annual Meeting of the American Association of Swine Veterinarians.
Amount: 1 award of $2,500
### Jean MacDougall One Health Travel Grant [T0793]

The grant will be awarded based on demonstration of how the student’s engagement in the program will enhance interdisciplinary collaboration and communication in an aspect of One Health by integrating the health of animals, humans, and the environment through research discoveries, enhanced public health efficacy, or improving interactions among animal and human healthcare professionals. Students will be invited to submit a single summary of the international experience for publication. Apply by letter describing the intended international program with a curriculum vitae and three letters of reference to the Chair of the OVC Awards Committee by Feb 1.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>The Estate of Jean MacDougall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students registered full-time in Phase 1, 2, or 3 of the DVM program at the Ontario Veterinary College who will be engaged in an international program in the summer.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $3,500</td>
</tr>
</tbody>
</table>

### OURA Innovation Travel Grant [T4393]

Established in recognition of an innovative student fee protocol put forward by the Student Executive Council to reduce energy use by upgrading campus buildings through an energy retrofit program. Apply to Student Financial Services by October 7th with a completed Financial Need Assessment Form and include one-page description of the intended travel. ACCESS AWARD

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Ontario University Registrars' Association (OURA) with matching funding through the Ontario Trust for Student Support program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students registered in any degree program who have completed a minimum of 4.0 credits with a minimum 75% cumulative average and who are participating in a travel program or initiative (research, conference, seminar, etc.) in support of environmental sustainability. Additionally, students must meet the government-mandated terms for receipt of an OSOF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $350</td>
</tr>
</tbody>
</table>

### Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]

The estate of Richard and Sophia Hungerford, with the assistance of the Ontario government's OSOTF program, has established an endowment to provide travel scholarships to undergraduate students with demonstrated financial need who wish to study in developing countries, or attend conferences on development. Apply to Student Financial Services with completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>The Estate of Richard Hungerford with matching funding through the Ontario Student Opportunities Trust Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Registered undergraduate students with demonstrated financial need who have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study are eligible. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards of varying amounts to a maximum of $1,000</td>
</tr>
</tbody>
</table>

### Vétouquinol Travel Scholarship in Avian Medicine [T2163]

Vétouquinol N-A Inc. established this award to support a D.V.M. student attending the annual Association of Avian Veterinarians Conference. Apply by letter, outlining interest and experience in avian medicine, and expected benefit of attendance at the conference, to the O.V.C. Associate Dean’s, Students, by October 15.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Vétouquinol N-A Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Full-time D.V.M. students who have completed Phase 3 and are planning on attending the annual Association of Avian Veterinarians Conference.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $1,000</td>
</tr>
</tbody>
</table>

### Vétouquinol Travel Scholarship in Bovine Reproduction [T2162]

Vétouquinol N-A Inc. established this award to support a D.V.M. student attending the annual Society of Theriogenology Conference. Apply by letter, outlining interest and experience in bovine reproduction, and expected benefit of attendance at the conference, to the O.V.C. Associate Dean’s, Students, by October 15.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Vétouquinol N-A Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Full-time D.V.M. student planning to attend the annual Society of Theriogenology Conference</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $1,000</td>
</tr>
</tbody>
</table>

### University of Guelph Travel Scholarships [T0421]

The University of Guelph, through the sale of Guelph London House, has established an endowment to provide travel scholarships to students who wish to study outside of Canada but need financial support to do so. Preference will be given to students participating in the London Semester. Students may only receive this travel grant once per degree. The scholarship can cover additional costs of travelling outside of Canada including: airfare, administrative costs, and differential costs of accommodation. Apply to Student Financial Services with a completed Need-Based Travel Grant Application at least one month prior to departure. Deadline dates are June 30 for Fall and Winter travel, October 1 for Winter travel, and February 1 for Summer travel.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>University of Guelph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students that have completed a minimum of 5.0 credits with demonstrated financial need who have a minimum 70% cumulative average in the last two semesters of full-time equivalent study.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards up to $1,500</td>
</tr>
</tbody>
</table>
Other Forms of Financial Assistance

Independent Study - O.A.C.

Vera Bezeredy Memorial Prize in Communications
Established by the Ontario Diploma in Horticulture Graduates Association in memory of Vera Bezeredy, the first female ODH graduate. Apply to Independent Study/O.A.C. ACCESS by letter on or before April 1.

Qualification(s): Graduating adult learner in the ODH program who, during the course of her or his studies, has demonstrably contributed to the public profile and understanding of horticulture and landscaping, and has a minimum "A" standing (average) at graduation. The prize recognizes skills in independent business communications - including public relations, marketing, and services/product promotion via new media/multimedia creation, public speaking, or print, audio and video publicity/communication.

Amount: One award of $450

Centre for Open Learning and Educational Support Awards

Open Learning Bursaries
Established by faculty, staff and friends of Open Learning. These funds are intended to provide support for non-degree students that are enrolled in an Open Learning Program (courses, certificates, and diplomas) in need of financial assistance. Apply, online, through the Office of Open Learning web site at www.open.uoguelph.ca/bursary by June 30 for consideration for Fall, Winter, and/or Spring semesters of study.

Qualification(s): Canadian citizens or permanent residents with the greatest financial need

Bruce Christie Entrance Scholarship in Agricultural Communications
In honour of his retirement, friends and colleagues of Bruce E. Christie P.Ag (Hon.)(OAC 1958A) provided donations to establish this $1,500 scholarship. This award will further his long-time and dedicated interest in developing better communications between the agri-food industry and its various constituents, especially urban and rural populations. Students entering the Diploma in Agricultural Communications program directly after graduating with a minimum 70% average from any undergraduate program in OAC are eligible. Selection will be based on the level of interest in agricultural communications career as demonstrated by the application materials. Financial need will also be considered. Apply to Open Learning Bursary Committee by April 1 with a one-page letter outlining your achievements in various communications/journalism/public relations activities as well as citing the communications courses taken during your undergraduate program and information regarding any financial need.

Equine Science Certificate Scholarship
This scholarship provides the value of tuition for one course in the Equine Science Certificate program. The scholarship is available to Open Learning students who have completed two courses in the Equine Science Certificate Program with a minimum cumulative average of 80%. Apply to Senior Manage, Equine Guelph by February 12 with an essay of no more than two pages on the value of the program and its impact on the well-being of the student's horse. This award may be held only once.

Virginia L. Gray Memorial Bursary
Family, friends and colleagues of Virginia Gray, former Director, Office of Open Learning have established and contributed to the Virginia L. Gray Memorial Bursary as a tribute to her exemplary work in continuing and distance education over 38 years at the University of Guelph. Students interested in enrolling in continuing education and/or distance education courses are eligible to apply. Applicants must be Canadian citizens or Permanent residents and must not be enrolled in a degree program. Apply to the Office of Open Learning by January 30th or July 30th for the following Fall, Winter and/or Summer semesters of study with a letter of application outlining financial need with pertinent supporting documentation. Students may receive the bursary only once.

Prof. H.J. Malik Statistics Prize
This $150 prize is provided in honour of H.J. Malik, Professor Emeritus in the Department of Mathematics and Statistics, by family, colleagues and friends. Application not required. Open Learning program distance education student who has completed the courses STAT*2060, Statistics for Business Decisions, with the highest attained grade over 80% in the previous year. All open Learning program students who complete this course in the previous spring, fall or winter semesters will automatically be considered the following May.

Stan Young Memorial Entrance Scholarship in Agricultural Communications
The family, friends, and colleagues of the late Dr. Stan Young (BSA '49) have established this $1,300 scholarship as a tribute to Stan's accomplishments in the area of agricultural communications and to further his vision for a more proactive and focused education for people interested in promoting agricultural and food related issues. Students entering the Diploma in Agricultural Communications program directly after graduating with a minimum 70% average from any undergraduate program in OAC are eligible. Selection will be based on the level of interest in agricultural communications career as demonstrated by the application materials. Financial need will also be considered. Apply to Open Learning Bursary Committee by April 1 with a one-page letter outlining your achievements in various communications/journalism/public relations activities as well as citing the communications courses taken during your undergraduate program and information regarding any financial need.

Ontario Student Assistance Program (OSAP)
Students who meet the Ontario residence requirements and who require financial assistance to attend the University, should consider applying for the Ontario Student Assistance Program (OSAP) online at http://osap.gov.on.ca. Students should refer to the OSAP website to review the OSAP Program Information Guide for details on program policies and procedures. Students who are bona fide residents of other provinces should apply to their home province for financial assistance.

Loans - All Colleges

Uniroyal Ltd. Fund
A fund was established by Uniroyal Limited in 1972 to provide for loans to students who have successfully completed one year of post-secondary education and who have a demonstrated interest in a career in either industry or education.

University of Guelph Fund
The Board of Governors established in 1980 a loan fund of $25,000 to assist needy students to meet academic expenses not covered from normal financial resources. Enquiries should be made at Student Financial Services, Level 3, University Centre. Loans may be interest free to the due date which is not to exceed 30 days beyond conclusion of the semester. Interest will be charged on any balance which remains outstanding beyond the maturity date, at the rate of interest in effect for the year in which the loan is made. The rate will be established at the time the loan is issued and will agree with the Canadian Chartered Banks' prime lending rate in effect at that time.
### X. Degree Programs

**Specializations and Their Degrees**

Specializations and the degree under which they are offered.

<table>
<thead>
<tr>
<th>Specialization Name</th>
<th>Specialization Acronym</th>
<th>Honours Program Major</th>
<th>Honours Program Minor</th>
<th>Honours Program Area of Emphasis</th>
<th>General Program</th>
<th>Co-op Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>ACCT</td>
<td>BCOMM</td>
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<td>BCOMM</td>
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<tr>
<td>Adult Development</td>
<td>ADEV</td>
<td>BASC</td>
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<tr>
<td>Agriculture</td>
<td>AGR</td>
<td>BSAG</td>
<td>BAS</td>
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<td>Agricultural Science</td>
<td>AGRS</td>
<td>BSAG</td>
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<tr>
<td>Animal Biology</td>
<td>A BIO</td>
<td>BSC</td>
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<tr>
<td>Animal Science</td>
<td>ANSC</td>
<td>BSAG</td>
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<tr>
<td>Anthropology</td>
<td>ANTH</td>
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<td>BA</td>
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<tr>
<td>Applied Human Nutrition</td>
<td>AHN</td>
<td>BASC</td>
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<tr>
<td>Applied Mathematics &amp; Statistics</td>
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<td></td>
<td></td>
<td>BA</td>
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<td>Applied Plant Science</td>
<td>APS:C</td>
<td>BSCH.PLSC</td>
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<td>Art History</td>
<td>ARTH</td>
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<td>BA</td>
<td>BAS</td>
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<tr>
<td>Biochemistry</td>
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<tr>
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<td>BMPH</td>
<td>BSC</td>
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<tr>
<td>Biological and Pharmaceutical Chemistry</td>
<td>BPCH</td>
<td>BSC</td>
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Bachelor of Applied Science (B.A.Sc.)

Program Information

The University of Guelph offers an 8 semester (20.00 credits) honours program leading to a Bachelor of Applied Science (B.A.Sc.) degree. Students must select one of the 3 following major areas of study:

- **Adult Development** (ADEV)
- **Nutrition and Society**
- **Introduction to Psychology**

The student must do the following in the specified major:

- **Cumulative Average**: must have a cumulative average of 60% or higher.
- **Term Academic Standing**: Eligible to Continue or Continue or above.
- **Field Placement Requirements**: will be the responsibility of each student.
- **Supplementary Expenses**: placed, personal information about any criminal convictions and pending criminal charges.

Field placement courses may be required to submit to the agency with which they are placed.

Special Expenses

- **Field placement**: according to the programs
- **Supplies and Laboratory Costs**: modest expenses for supplies and where appropriate for laboratory costs. According to the program
- **Expenses for Field Trips**: can range from $20 to $30 per semester in the first 4 semesters. In certain courses modest expenses are required to do criminal reference checks on all their employees. Students enrolled in practica or field placement courses may be required to submit to the agency with which they are placed.

Laboratory, practicum and field experiences enhance the students' opportunities to grasp the contributions of the social, physical and biological sciences to significant facets of human behaviour and experience, whether in family, community, or in educational settings.

Academic Counselling

Program Counselling

A B.A.Sc. program counsellor is available to assist prospective students in the selection of their major and initial courses, and to respond to questions regarding any other aspects of their anticipated program. The program counsellor will also assist in-course students who need information or advice about their program or other academic regulations, who seek information on services and resources available to students or who are contemplating transfer into or out of their current major or degree program.

Academic Advising

On entering the program all students are assigned to a departmental advisor by major. Co-operative Education students in all majors are also assigned to an advisor. This advisor is thoroughly familiar with the academic requirements of the program and is also knowledgeable about career opportunities which relate to a student's specific major. Students are strongly encouraged to attend all meetings called by their departmental advisors, and to set up individual meetings with them when they have questions or concerns about their major, or their performance in the program.

Continuation of Study

Students are advised to consult the regulations for Continuation of Study which are outlined in detail in Section VIII—Undergraduate Degree Regulations & Procedures.

Conditions for Graduation

To qualify for the degree Bachelor of Applied Science, the student must satisfy the following conditions:

- **the student must have successfully completed the schedule of studies requirements for the specified major**
- **the student must have a cumulative average of 60% or higher**
- **the student must have a term academic standing of Eligible to Continue or Continue on Probation**

Schedule of Studies

Courses specified in the Schedule of Studies are required courses and must be completed successfully. A full course load normally includes 2.50 credits (normally 5 courses). The requirements for each major are set out below.

Special Expenses

Expenses for field trips can range from $20 to $30 per semester in the first 4 semesters and from $25 to $30 in each of the last 4 semesters. In certain courses modest expenses will be incurred for supplies and where appropriate for laboratory costs. According to recent Ontario legislation, agencies licensed by the Ministry of Community and Social Services which care for, or provide service to, children or vulnerable adults are required to do criminal reference checks on all their employees. Students enrolled in practica or field placement courses may be required to submit to the agency with which they are placed, personal information about any criminal convictions and pending criminal charges. The cost of acquiring this criminal reference check (Canadian Police Information Check) will be the responsibility of each student.

Adult Development (ADEV)

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

The Adult Development major focuses on health and well-being from young adulthood to old age within the context of changing family relationships and diverse social and cultural influences. Courses focus on current research and theory in adult development and aging, family relationships, human sexuality, social policy and community services. Field placements and community service learning opportunities enable students to gain knowledge, skills and values appropriate for work with individuals and groups in a variety of settings.

Graduates of this program are pursuing careers in a variety of settings including family and community service agencies, government departments, services for seniors and their families, health care agencies, employee and family assistance programs, and local social planning councils. This program provides a solid foundation for the pursuit of graduate studies in fields such as social work, family relations, gerontology, occupational therapy, family law and mediation, couple and family therapy, education, sexual health, human resource management (business), and health studies.

This interdisciplinary program is designed to provide students with an understanding of the influence of psychological, social, biological and economic factors on individual development, capabilities, health and relationships across the lifespan. It is one of several majors in the Department that share an over-riding goal of applying knowledge to promote individual and family well-being. This major offers a high degree of flexibility for students, who may choose to deepen their studies in one or more of the core content areas in the major (adulthood and aging, family and social relationships, human sexuality, or health and well-being) and/or to choose electives in a related or complementary field.

Program Requirements

All students in the Adult Development major must successfully complete a minimum of 20.00 passed credits, including the core of 10.50 required credits as outlined in the Schedule of Studies.

Some students may wish to select courses that provide a broad background appropriate for teaching, business, public service management or other careers. Students interested in pursuing graduate education are encouraged to complete an undergraduate thesis in their senior year and to participate in faculty research projects.

In addition to the core requirements and options, there are courses in various departments throughout the University which may be taken as electives. Lists of suggested electives that relate to particular careers or areas of interest and requirements for admission to various graduate programs, including Faculties of Education, are available from the B.A.Sc. Program Counsellor.

Students must meet the continuation of study requirements at the time of graduation and have a minimum 60.00% cumulative average.

Students may take one minor in addition to the Adult Development major. See the B.A. Program information for the list of minors: http://www.uoguelph.ca/registrar/calendars/undergraduate/current/10/0/cl10ba.shtm. The 60.00% requirement applies to each major and minor.

Double Counting of Courses

A maximum of 50 percent of the courses applied to a minor may be courses taken in fulfillment of the major where required courses are the same.

Counselling on Minors

The B.A.Sc. program counsellor assists students in the selection of minors, interpreting program and academic regulations. Academic departments offer the minors and assign faculty advisors to assist students with academic planning (e.g., a faculty advisor in the Psychology department handles queries about a minor in Psychology). Students should consult the appropriate faculty advisor, along with the B.A.Sc. Program Counsellor, when declaring a minor or requiring advice on the completion of specialization requirements. The list of faculty advisors is available on the Undergraduate Academic Information Centre website: http://www.uoguelph.ca/ uuis/students_faculty.shtml or contact the B.A.Sc. Program Counsellor for further information.

Major

<table>
<thead>
<tr>
<th>Semester 1</th>
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<tr>
<td>FRHD*1100</td>
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<tr>
<td>NUTR*1010</td>
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<td>PSYC*1000</td>
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<td>ANTH*1150</td>
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<td>SOC*1100</td>
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<th>Semester 2</th>
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<tr>
<td>FRHD*1010</td>
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<td>BIOM*2000</td>
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<td>MBG*1000</td>
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<td>1.00 electives</td>
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<tr>
<td>FRHD*2060</td>
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2012-2013 Undergraduate Calendar  
Last Revision: Oct. 19, 2012
The Adult Development Co-op major focuses on health and well-being from young adulthood to old age within the context of changing family relationships and diverse social and cultural influences. Courses focus on current research and theory in adult development and aging, family relationships, human sexuality, social policy and community services. Work placements and community service learning opportunities enable students to gain knowledge, skills and values appropriate for work with individuals and groups in a variety of settings.

Graduates of this program are pursuing careers in a variety of settings including family and community service agencies, government departments, services for seniors and their families, health care agencies, employee and family assistance programs, and local social planning councils. This program provides a solid foundation for the pursuit of graduate studies in fields such as social work, family relations, gerontology, occupational therapy, family law and mediation, couple and family therapy, education, sexual health, human resource management (business), and health studies.

This interdisciplinary program is designed to provide students with an understanding of the influence of psychological, social, biological and economic factors on individual development, capabilities, health and relationships across the lifespan. It is one of several majors in the Department that share an over-riding goal of applying knowledge to promote individual and family well-being. This major offers a high degree of flexibility for students, who may choose to deepen their studies in one or more of the core content areas in the major (adulthood and aging, family and social relationships, human sexuality, or health and well-being) and/or to choose electives in a related or complementary field.

Program Requirements
All students in the Adult Development Co-op major must successfully complete a minimum of 20.00 passed credits, including the core of 10.50 required credits as outlined in the Schedule of Studies. Students in the Co-op program must also complete COOP* 1100 in the third semester.

Some students may wish to select courses that provide a broad background appropriate for teaching, business, public service management or other careers. Students interested in pursuing graduate education are encouraged to complete an undergraduate thesis in their senior year and to participate in faculty research projects.

In addition to the core requirements and options, there are courses in various departments throughout the University which may be taken as electives. Lists of suggested electives that relate to particular careers or areas of interest and requirements for admission to various graduate programs, including Faculties of Education, are available from the B.A.Sc. Program counsellor.

Co-operative Education Program
Students must be either a Canadian Citizen or Permanent Resident. A cumulative average of 70% is required in courses taken in Semesters 1 and 2 to permit continuation in the program.

Conditions for Graduation from the B.A.Sc. Co-operative Education Program
Conditions for graduation are the same as the corresponding regular B.A.Sc. program. In addition, all work reports and work performance evaluations must have a grade of satisfactory or better.

Major

**Semester 1 - Fall**
- FRHD*1100 [0.50] Life: Health and Well-Being
- NUTR*1010 [0.50] Nutrition and Society
- PSYC*1000 [0.50] Introduction to Psychology
  - One of:
    - ANTH*1150 [0.50] Introduction to Anthropology
    - SOC*1100 [0.50] Sociology
- 0.50 electives

**Semester 2 - Winter**
- FRHD*1010 [0.50] Human Development
- FRHD*1020 [0.50] Couple and Family Relationships
  - One of:
    - BIOM*2000 [0.50] Concepts in Human Physiology
    - MBG*1000 [0.50] Genetics and Society
- 1.00 electives

**Semester 3 - Fall**
- COOP*1100 [0.00] Introduction to Co-operative Education
- FRHD*2100 [0.50] Development of Human Sexuality
- FRHD*2060 [0.50] Adult Development and Aging
- FRHD*3070 [0.50] Research Methods: Family Studies
- FRHD*3400 [0.50] Communication and Counselling Skills
- STAT*2080 [0.50] Introductory Applied Statistics I

**Semester 4 - Winter**
- FRHD*3150 [0.50] Strategies for Behaviour Change
- FRHD*2350 [0.50] Principles of Program Design in the Human Services
- STAT*2090 [0.50] Introductory Applied Statistics II
- 1.00 electives
Successful completion of the requirements will allow students to compete for a limited number of dietetic internship positions. Most graduates completing dietetic internships are employed in hospitals and other health care agencies such as community health centres and long-term care facilities. Others find employment in a wider range of vocations including those associated with health and education in the government or private sectors, or with the food industry. Still others proceed to graduate study in fields such as nutrition, public health nutrition, medicine or education.

**Major**

**Semester 1**
- **CHEM*1040** [0.50] General Chemistry I
- **FRHD*1100** [0.50] Life: Health and Well-Being
- **PSYC*1000** [0.50] Introduction to Psychology
  - **HTM*2700** [0.50] Introductory Foods
  - **NUTR*1010** [0.50] Nutrition and Society
  - 0.50 electives

**Note**: HTM*2700 is recommended for Semester 1 if capacity allows, but may also be taken in Semester 2 by choosing NUTR*1010 in Semester 1.

**Semester 2**
- **CHEM*1050** [0.50] General Chemistry II
  - **HTM*2700** [0.50] Introductory Foods
  - **NUTR*1010** [0.50] Nutrition and Society
  - **FRHD*1020** [0.50] Couple and Family Relationships
  - **SOC*1100** [0.50] Sociology
  - 1.00 electives

*See note in Semester 1

**Semester 3**
- **BIOC*2580** [0.50] Introduction to Biochemistry
- **HTM*2030** [0.50] Control Systems in the Hospitality Industry
- **NUTR*2050** [0.50] Family and Community Nutrition
- **STAT*2080** [0.50] Introductory Applied Statistics I
  - **CIS*1200** [0.50] Introduction to Computing
  - **MCS*2020** [0.50] Marketing Information Management

**Note**: HTM*2030 may be taken in Semester 4.

**Semester 4**
- **MICR*2420** [0.50] Introduction to Microbiology
- **NUTR*3210** [0.50] Fundamentals of Nutrition
- **STAT*2090** [0.50] Introductory Applied Statistics II
  - 1.00 electives or restricted electives

**Semester 5**
- **BIOM*3200** [1.00] Mammalian Physiology
- **FRHD*3070** [0.50] Research Methods: Family Studies
  - 1.00 electives or restricted electives

* Students planning to apply for a dietetic internship must take HTM*3090. HTM*3090 is recommended in Semester 5 in place of elective or restricted elective if capacity allows, but it may also be taken in Semester 6.

**Semester 6**
- **BUS*3000** [0.50] Human Resources Management
- **FRHD*3400** [0.50] Communication and Counselling Skills
- **NUTR*3090** [1.00] Clinical Nutrition I
  - 0.50 electives or restricted electives

*Note*: BUS*3000 may be taken in Semester 7.

**Semester 7**
- **NUTR*4010** [0.50] Nutritional Assessment
- **NUTR*4040** [0.50] Clinical Nutrition II
- **NUTR*4070** [0.50] Nutrition Education
  - 1.00 electives or restricted electives

**Semester 8**
- **NUTR*4900** [0.50] Selected Topics in Human Nutrition
  - 2.00 electives or restricted electives

*Note*: With approval from the instructor, students may substitute NUTR*4810 and NUTR*4910 for NUTR*4900.

**Restricted Electives**
In addition to the 13.00 required credits listed above, students must take 1.50 restricted electives, including one 3000 level course, from the following list:

- **FOOD*2010** [0.50] Principles of Food Science
  - **FOOD*2400** [0.50] Introduction to Food Chemistry
  - **FOOD*3030** [0.50] Food Chemistry I
  - **FOOD*2410** [0.50] Introduction to Food Processing

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**Applied Human Nutrition (AHN)**

**Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.**

The Applied Human Nutrition major recognizes both the biological and the social facets of human nutrition. It focuses on nutrition from a preventive, maintenance and therapeutic perspective, all of which require a thorough understanding of the related biological sciences and of selected aspects of the behavioral sciences. Students learn about nutrition and its application to the maintenance of health and the prevention and treatment of disease. They also learn about individual and social behaviour, particularly in family settings, and the implications of behavioral factors in the establishment of good nutrition status from conception through to old age.

The B.A.Sc. Applied Human Nutrition program is accredited by the Dietitians of Canada.

All students in the Applied Human Nutrition major must include the core of 13.00 required and 1.50 restricted electives in the minimum of 20.00 passed credits. Students normally register for courses according to the semesters indicated below for Fall and Winter sequencing.

Those students wishing to compete for admission to a post-graduate dietetic internship will be assisted by departmental advisors in the selection of courses that will meet the academic requirement of the Dietitians of Canada and the College of Dietitians of Ontario for eligibility for internship and/or membership.
 Electives

There are 5.50 electives throughout the major which may be fulfilled by electing courses in any subject provided that the student has the prerequisite courses and can schedule them. Some electives and restricted elective courses are intended to contribute to a liberal education, while others permit students to work toward specific academic and career goals. Departmental advisors will assist students in selection of courses that will meet the requirements of the Dietitians of Canada for eligibility for Internship and/or membership, and when requested, can assist in selection of electives to complement the core requirements.

Child, Youth and Family (CYF)

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

The Child, Youth and Family major, administered by the Department of Family Relations and Applied Nutrition, examines the psychological, social and physical conditions which influence the growth and development of children and adolescents. While the primary focus of the major is on children and youth, the program regards the family as a primary context of development and as the key to successful interventions for children with developmental, behavioural, or socio-emotional difficulties. Through the effective use of elective courses, the core requirements in the major can be supplemented to create a program of study which will prepare graduates for a variety of careers in child and youth services. Graduates are pursuing child and youth-related careers in a variety of settings including child and youth treatment facilities, elementary schools, paediatric wards in hospitals, family and community service agencies, and child care centres. Students interested in working with children ten years of age and younger may apply for membership in the College of Early Childhood Educators; see further details on required courses below. Further academic preparation may be required for certain careers. Many graduates go on to pursue graduate education in fields such as family studies, human development, psychology, counselling psychology, social work, speech pathology, and occupational therapy.

Articulation Agreements

The University of Guelph is a partner in several Articulation Agreements concerning the Child, Youth and Family major. Students who enter the B.A.Sc. Child, Youth and Family major with advanced standing through an articulation agreement should identify themselves to the B.A.Sc. Program Counsellor for specific guidance around their Schedule of Studies (see Section IV of this calendar).

Students in the Child, Youth and Family major who are interested in proceeding to teachers college should refer to Section IV--Admissions Information, Articulation Agreements for information about admission to the Bachelor of Education program at Nipissing University.

Program Requirements

All students in the Child, Youth and Family major must include the following core of 11.50 required credits and 0.50 restricted electives to a minimum of 20.00 passed credits. Students are encouraged to plan the use of electives carefully in order to focus their program on one or a combination of the career options open to graduates. Discussion with a departmental advisor regarding the various choices possible from within the major is strongly recommended. Students will normally register for courses according to the semesters indicated below for Fall and Winter semester. Students who register for Summer semesters and other students for whom the semester offerings present difficulty may, where they have the approval of their departmental advisor, take some courses in alternative semesters.

Major

Semester 1
FRHD*1100 [0.50] Life: Health and Well-Being
NUTR*1010 [0.50] Nutrition and Society
PSYC*1000 [0.50] Introduction to Psychology
One of:
ANTH*1150 [0.50] Introduction to Anthropology
SOC*1100 [0.50] Sociology
0.50 electives

Semester 2
BIOM*2000 [0.50] Concepts in Human Physiology
FRHD*1020 [0.50] Couple and Family Relationships
MBG*1000 [0.50] Genetics and Society

Electives

There are 5.50 electives throughout the major which may be fulfilled by electing courses in any subject provided that the student has the prerequisite courses and can schedule them. Some electives and restricted elective courses are intended to contribute to a liberal education, while others permit students to work toward specific academic and career goals. Departmental advisors will assist students in selection of courses that will meet the requirements of the Dietitians of Canada for eligibility for Internship and/or membership, and when requested, can assist in selection of electives to complement the core requirements.

Electives - Recommended and Program Options

Child and Youth Services

It is highly recommended that students planning to work in child and youth services complete the following Youth stream courses:
FRHD*2300 [0.50] Principles of Program Design for Youth
FRHD*2319 [0.50] Administration of Programs for Children
FRHD*4020 [0.50] Family Theory
FRHD*4200 [0.50] Issues in Human Sexuality
FRHD*4510 [1.00] Family Violence
FRHD*4910 [1.00] Thesis II
NUTR*2050 [0.50] Family and Community Nutrition
PSYC*3440 [0.50] Cognitive Development
PSYC*3540 [0.50] Social and Personality Development
PSYC*3710 [0.50] Psychology of Learning Difficulties and Disabilities I
PSYC*3720 [0.50] Psychology of Learning Difficulties and Disabilities II
PSYC*3850 [0.50] Intellectual Disabilities
SOAN*2290 [0.50] Identities and Cultural Diversity
SOC*1500 [0.50] Crime and Criminal Justice
SOC*3040 [0.50] Sociology of Social Welfare

Early Childhood Education

Students planning to apply for membership in the College of Early Childhood Educators (CECE) need to complete the following Child stream courses:
FRHD*2040 [0.50] Principles of Program Design for Children

The following additional courses are also recommended for Child and Youth Service careers, although they are not part of the Child, Youth and Family major:
FRHD*2110 [0.50] Exceptional Children and Youth
FRHD*3150 [0.50] Strategies for Behaviour Change
FRHD*3190 [0.50] Introductory Applied Statistics I
FRHD*3250 [0.50] Practicum in Youth
FRHD*3255 [0.50] Practicum - Child
FRHD*3270 [0.50] Development in Early and Middle Childhood
FRHD*3280 [0.50] Adolescent Development
FRHD*3290 [1.00] Practicum in Youth
FRHD*4170 [1.00] Practicum - Child, Youth and Family (in a placement site designated as Youth)
FRHD*4410 [0.50] Assessment and Intervention
FRHD*4440 [0.50] Youth, Risk and Resilience

Students who intend to pursue a career in child and youth services may wish to choose electives from the following list:
EDRD*3120 [0.50] Educational Communication
FRHD*3090 [0.50] Poverty and Health
FRHD*3190 [0.50] Administration of Programs for Children
FRHD*4020 [0.50] Family Theory
FRHD*4200 [0.50] Issues in Human Sexuality
FRHD*4510 [1.00] Family Violence
FRHD*4910 [1.00] Thesis II
NUTR*2050 [0.50] Family and Community Nutrition
PSYC*3440 [0.50] Cognitive Development
PSYC*3540 [0.50] Social and Personality Development
PSYC*3710 [0.50] Psychology of Learning Difficulties and Disabilities I
PSYC*3720 [0.50] Psychology of Learning Difficulties and Disabilities II
PSYC*3850 [0.50] Intellectual Disabilities
SOAN*2290 [0.50] Identities and Cultural Diversity
SOC*1500 [0.50] Crime and Criminal Justice
SOC*3040 [0.50] Sociology of Social Welfare

Articulation Agreements

The University of Guelph is a partner in several Articulation Agreements concerning the Child, Youth and Family major. Students who enter the B.A.Sc. Child, Youth and Family major with advanced standing through an articulation agreement should identify themselves to the B.A.Sc. Program Counsellor for specific guidance around their Schedule of Studies (see Section IV of this calendar).

Students in the Child, Youth and Family major who are interested in proceeding to teachers college should refer to Section IV--Admissions Information, Articulation Agreements for information about admission to the Bachelor of Education program at Nipissing University.

Program Requirements

All students in the Child, Youth and Family major must include the following core of 11.50 required credits and 0.50 restricted electives to a minimum of 20.00 passed credits. Students are encouraged to plan the use of electives carefully in order to focus their program on one or a combination of the career options open to graduates. Discussion with a departmental advisor regarding the various choices possible from within the major is strongly recommended. Students will normally register for courses according to the semesters indicated below for Fall and Winter semester. Students who register for Summer semesters and other students for whom the semester offerings present difficulty may, where they have the approval of their departmental advisor, take some courses in alternative semesters.

Major

Semester 1
FRHD*1100 [0.50] Life: Health and Well-Being
NUTR*1010 [0.50] Nutrition and Society
PSYC*1000 [0.50] Introduction to Psychology
One of:
ANTH*1150 [0.50] Introduction to Anthropology
SOC*1100 [0.50] Sociology
0.50 electives

Semester 2
BIOM*2000 [0.50] Concepts in Human Physiology
FRHD*1020 [0.50] Couple and Family Relationships
MBG*1000 [0.50] Genetics and Society

Electives

There are 5.50 electives throughout the major which may be fulfilled by electing courses in any subject provided that the student has the prerequisite courses and can schedule them. Some electives and restricted elective courses are intended to contribute to a liberal education, while others permit students to work toward specific academic and career goals. Departmental advisors will assist students in selection of courses that will meet the requirements of the Dietitians of Canada for eligibility for Internship and/or membership, and when requested, can assist in selection of electives to complement the core requirements.

Electives

There are 5.50 electives throughout the major which may be fulfilled by electing courses in any subject provided that the student has the prerequisite courses and can schedule them. Some electives and restricted elective courses are intended to contribute to a liberal education, while others permit students to work toward specific academic and career goals. Departmental advisors will assist students in selection of courses that will meet the requirements of the Dietitians of Canada for eligibility for Internship and/or membership, and when requested, can assist in selection of electives to complement the core requirements.

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Electives

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Electives

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FRHD*2260 [0.50] Infant Development
FRHD*2270 [0.50] Development in Early and Middle Childhood
FRHD*3190 [0.50] Administration of Programs for Children
FRHD*3200 [1.00] Practicum - Child
FRHD*4170 [1.00] Practicum - Child, Youth and Family (in a placement site designated as Child)
FRHD*4180 [0.50] Assessment and Intervention
FRHD*4210 [0.50] Senior Seminar in Early Education and Care

Students who intend to pursue a career in early childhood education may wish to choose electives from the following list:

ENGL*2740 [0.50] Children's Literature
FRHD*3090 [0.50] Poverty and Health
FRHD*4810 [0.50] Thesis I
FRHD*4910 [1.00] Thesis II
NUTR*2050 [0.50] Family and Community Nutrition
PSYC*3710 [0.50] Psychology of Learning Difficulties and Disabilities I
PSYC*3720 [0.50] Psychology of Learning Difficulties and Disabilities II
PSYC*3850 [0.50] Intellectual Disabilities
SOAN*2290 [0.50] Identities and Cultural Diversity
THST*3030 [0.50] Theatre for Young Audiences

Education - Primary / Junior / Intermediate

Graduates interested in elementary school teaching need an additional year of study at a Faculty of Education. For those who wish to teach primary (junior kindergarten to grade 3) or junior (grades 4 to 6), each faculty of education may have certain required courses for admission. Often recommended are courses in visual or performing arts, mathematics, languages, physical or natural sciences, history or geography. Students interested in intermediate (grades 7 to 10) level teaching need to acquire a teachable subject in a specific discipline. Normally, this requirement consists of six semester courses in an area of concentration. Students are strongly advised to contact the Faculties of Education that interest them early in their programs to determine the specific requirements.

Graduate and Professional Studies

Students have successfully used the B.A.Sc. degree to gain admission into graduate programs in social work, applied psychology, sociology, anthropology, occupational therapy, speech and language, and social policy. If you plan to enter a graduate program after completing the Child, Youth and Family major of the B.A.Sc. degree program you will need to select certain courses as part of your undergraduate program to meet graduate program admission requirements. Sometimes these requirements are quite particular which means that you must plan your course selections early and carefully. In our program you would include FRHD*4810 and FRHD*4910.

Although graduate programs differ in their entrance requirements, most graduate programs require that you have taken (at least): one course in research methods; two undergraduate statistics courses; and have completed an undergraduate thesis.

For many of the programs you will be required to take Graduate Record Exams (GREs) in the specific field of study. You are strongly advised to contact the graduate programs that interest you early in your program to determine the specific entrance requirements of each program.

Child, Youth and Family (Co-op) (CYF:C)

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.

All students in the Child, Youth and Family Co-op major must include the following core of 11.50 required credits and 0.50 restricted electives to a minimum of 20.00 passed credits.

The first four semesters are as for the students in the regular program. Students in the co-op program must also complete COOP*1100 in the third academic semester. Thereafter the schedule is as follows:

Major

Semester 1
FRHD*1100 [0.50] Life: Health and Well-Being
NUTR*1010 [0.50] Nutrition and Society
PSYC*1000 [0.50] Introduction to Psychology
One of:
  ANTH*1150 [0.50] Introduction to Anthropology
  SOC*1100 [0.50] Sociology

0.50 electives

Semester 2
BIOM*2000 [0.50] Concepts in Human Physiology
FRHD*1020 [0.50] Couple and Family Relationships
MBG*1000 [0.50] Genetics and Society
One of:
  FRHD*2260 [0.50] Infant Development
  FRHD*2280 [0.50] Adolescent Development

0.50 electives

Semester 3
COOP*1100 [0.00] Introduction to Co-operative Education
FRHD*2100 [0.50] Development of Human Sexuality
FRHD*3070 [0.50] Research Methods: Family Studies
FRHD*3400 [0.50] Communication and Counselling Skills
STAT*2080 [0.50] Introductory Applied Statistics I
One of:
  FRHD*2060 [0.50] Adult Development and Aging
  FRHD*2270 [0.50] Development in Early and Middle Childhood

Semester 4
FRHD*2110 [0.50] Exceptional Children and Youth
FRHD*3150 [0.50] Strategies for Behaviour Change
STAT*2090 [0.50] Introductory Applied Statistics II
One of:
  FRHD*2040 [0.50] Principles of Program Design for Children
  FRHD*2300 [0.50] Principles of Program Design for Youth

0.50 electives

Summer Semester
COOP*1000 [0.00] Co-op Work Term I

Fall Semester
COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter
FRHD*3040 [0.50] Parenting and Intergenerational Relationships
FRHD*3430 [0.50] Social Policies for Children, Youth and Families
One of:
  FRHD*3200 [1.00] Practicum - Child
  FRHD*3250 [1.00] Practicum in Youth

0.50 electives

Semester 6 - Summer
2.50 electives

Semester 7 - Fall
FRHD*3180 [0.50] Observation and Assessment Laboratory
FRHD*4310 [0.50] Professional Issues

1.50 electives or restricted electives

Winter Semester
COOP*3000 [0.00] Co-op Work Term III

Semester 8 - Summer
2.50 electives

Restricted Electives
0.50 restricted electives from the Department of Family Relations and Applied Nutrition at the 4000 level (excluding FRHD*4170).
Bachelor of Arts (B.A.)

The University of Guelph offers general and honours programs leading to the B.A. degree. The General Program consists of a minimum of 15.00 credits requiring the equivalent of 6 semesters of successful full time study. The Honours Program consists of a minimum of 20.00 credits requiring the equivalent of 8 semesters of successful full time study. A student may register in Summer, Fall and Winter semesters. The normal course load is 2.50 credits per semester for a full time student on regular status. Students may register for 0.50 credit more at their own discretion. Part time study consists of 1.50 credits or fewer per semester.

Program Information

A student's selection of courses must follow the B.A. Program Regulations (including Distribution Requirements), a pattern of study for either the General or Honours degree (below), and the detailed schedule(s) of studies which follow for any special subject(s) studied.

In fulfilling distribution requirements a) and b) students must in semester 1 choose 2 courses from 2 different schools or departments in the College of Arts and 2 courses from 2 of the following departments in the College of Social and Applied Human Sciences and the College of Management and Economics: Economics, Geography, Political Science, Psychology, Sociology and Anthropology.

Students entering the B.A. program with advanced standing must complete the distribution requirements a) and b) as soon as possible after entrance to the program. Requirement c) need not be completed immediately but is a graduation requirement.

Note: Courses taken to satisfy the distribution requirements may also be counted toward a specialization in the general or honours program.

Academic Counselling

Program Counselling

Students are urged to seek the assistance of the counsellors in the B.A. Counselling Office regarding their program and academic regulations, selecting courses, services and resources available on campus, and when they are experiencing difficulties that affect their academic progress.

Departmental Advising

Every academic department has advisors available to assist students in their course selection planning. Students should seek the advice of the faculty advisor when declaring a major, area of concentration, or minor, regarding course scheduling and completing the requirements for the specializations.

Students encountering difficulties within a course should first consult the instructor of the course. Co-operative education students in Computing and Information Science, Economics and Psychology will also have a departmental Co-op Academic Advisor and Co-ordinator, and should consult Co-operative Education Services regarding scheduling work terms and the COOP*1000 course.

Academic Residence Requirements

1. At least 5.00 of the credits required for graduation by the student's program must be taken at the University of Guelph.
2. At least 60% of the 3000 and 4000 level courses required for graduation must be taken at the University of Guelph.

University of Guelph courses include courses taken on exchange and on study abroad programs. Letter of Permission courses are not included.

Continuation of Study

Students are advised to consult the regulations for continuation of study within the program which are outlined in detail in Section VIII—Undergraduate Degree Regulations and Procedures of this calendar.

Conditions for Graduation

In addition to meeting the general and honours degree requirements listed below under Program Regulations, students will not normally be eligible to graduate while on probationary or required-to-withdraw status.

Distribution Requirements

The distribution requirements are designed to provide the student with exposure to and some understanding of a range of disciplines in the Arts, Social Sciences and Mathematical and Natural Sciences.

The distribution requirement of 8 courses (minimum 4.00 credits) is as follows:

A. A minimum of 1.50 credits over at least 2 different subject areas in the humanities:

- ARTH Art History
- CHIN Mandarin
- CLAS Classical Studies
- ENGL English
- EURO European Studies
- FREN French Studies
- GERM German Studies
- GREK Greek

- HISP Hispanic Studies
- HIST History
- HUMN Humanities
- ITAL Italian Studies
- LAT Latin
- LING Linguistics
- MUSC Music
- PHIL Philosophy
- PORT Portuguese
- SART Studio Art
- THST Theatre Studies
- WMST Women's Studies

B. A minimum of 1.50 credits over at least two of the following subject areas in the social sciences:

- ANTH Anthropology
- ECON Economics
- GEOG Geography
- IDEV International Development
- ISS Interdisciplinary Social Science
- POLS Political Science
- PSYC Psychology
- SOAN Sociology and Anthropology
- SOC Sociology
- WMST Women's Studies

C. 1.00 credits in natural and/or mathematical sciences from the list below.

Natural and Mathematical Science Courses Acceptable for B.A. Distribution Requirements

Students must take 1.00 credits in natural and/or mathematical science courses to fulfill the B.A. science requirements. Students should choose their courses from the list below or any course for which those listed serve as prerequisites. Students are advised to fulfill this requirement before their final semester. Any problems related to this requirement should be discussed with a B.A. Program Counsellor.

Courses recommended for students with limited preparation (e.g., lacking 4U credit in a specific area):

- AGR*2150 [0.50] Plant Agriculture for International Development
- BIOL*1020 [0.50] Introduction to Biology
- BIOL*1500 [0.50] Humans in the Natural World
- BIOM*2000 [0.50] Concepts in Human Physiology
- BOT*1200 [0.50] Plants and Human Use
- CHEM*1060 [0.50] Introductory Chemistry
- CHEM*1100 [0.50] Chemistry Today
- CIS*1000 [0.50] Introduction to Computer Applications
- CROP*1050 [0.50] Green Energy - Fuel from Plants
- ENVS*1050 [0.50] Geology and the Environment
- ENVS*1060 [0.50] Principles of Geology
- ENVS*2060 [0.50] Soil Science
- ENVS*2210 [0.50] Introductory Agriculture
- FOOD*2010 [0.50] Principles of Food Science
- GEOG*1300 [0.50] Introduction to the Biophysical Environment
- GEOG*1350 [0.50] Earth: Hazards and Global Change
- HORT*1120 [0.50] Grape and Wine Science
- HORT*1130 [0.50] Science of Gardening
- MBG*1000 [0.50] Genetics and Society
- MET*1000 [0.50] The Atmospheric Environment
- MUSC*1090 [0.50] Physics of Music
- NUTR*1010 [0.50] Nutrition and Society
- PHYS*1600 [0.50] Contemporary Astronomy
- PHYS*1810 [0.50] Physics of Music

Other acceptable courses which require 4U or university preparation:

- BIOL*1XXX [0.00] Any BIOL course at the 1000 level
- CHEM*1XXX [0.00] Any CHEM course at the 1000 level
- CIS*1XXX [0.00] Any CIS course at the 1000 level
- CIS*2100 [0.50] Scientific Computing and Applications Development
- ENVS*2030 [0.50] Meteorology and Climatology
- ENVS*2250 [0.50] Geology of Natural Disasters
- HK*2100*Only available to SART majors) [0.50] Anatomy for Artists
- MATH*1XXX [0.00] Any MATH course at the 1000 level
- PHYS*1XXX [0.00] Any PHYS course at the 1000 level
- STAT*2XXX [0.00] Any STAT course at the 2000 level
Double Counting of Courses
A maximum of 50 percent of the courses in a second major or minor may be courses taken in fulfillment of the first major where required courses are the same. Double counting is not allowed in the General Program.

Program Regulations
The General Degree Program provides the opportunity for a sound general education in the arts and social sciences, mathematics and sciences, while allowing for concentration of studies in one or more subjects.

The Honours Degree Program provides depth of study in one specialization, strengthening written and oral communication skills, research and analytical abilities, as well as ensuring a breadth of study in the arts, social sciences, mathematics and sciences.

General Degree Requirements (BAG)
To graduate from a general program a student must:

a. earn 15.00 credits. These must include courses that fulfill the distribution requirements (see below). At least 4.00 credits must be at the 3000 level or above. Not more than 6.00 credits at the introductory (1000) level may be counted towards the 15.00 credits requirement.

b. 9.00 of the required 15.00 credits must be in courses offered by the College of Arts, the departments of Economics, Geography, Political Science, Psychology, Sociology and Anthropology (in the College of Social and Applied Human Sciences and the College of Management and Economics), School of Computer Science, or the Department of Mathematics and Statistics.

c. no more than 11.00 credits in any one subject or discipline, as indicated by the course prefix code, can be counted towards a general degree.

While students are encouraged to complete the requirements of one or more areas of concentration, this is not a graduation requirement.

The requirements for each area of concentration are set out separately in the pages following the list of Honours and General Specializations Available in the B.A. Degree.

Honours Degree Requirements (BAH)
To graduate from an honours program a student must:

a. earn 20.00 credits. These must include courses that fulfill the distribution requirements (see below), and courses that fulfill the requirements of at least 1 major. At least 7.00 credits must be at the 3000 level or above. Not more than 6.00 credits from courses at the introductory (1000) level may be counted towards the 20.00 credits requirement.

b. fulfill the course and credit requirements of at least one major with a cumulative average of at least 70% in all course attempts at the University of Guelph in that major. Grades in all courses in the discipline area of the major are included in the cumulative average. Grades from those courses in other disciplines listed as options toward the major are also included in the average. (This condition does not apply to majors in the interdisciplinary programs of International Development and European Studies, where only courses in the core and chosen area of emphasis will be counted toward the specialization average.) Students may take more than one major. They may also take one or more minors. The 70% requirement applies to each major and minor.

c. no more than 14.00 credits in any one subject or discipline, as indicated by the course prefix code, can be counted towards an Honours Degree.

The requirements for each major and minor are set out separately in the pages following the list of Honours and General Specializations Available in the B.A. Degree.

University recognition that a student has graduated with a particular major or minor requires a cumulative average of 70% for all course attempts at this University in that major or minor.

Students failing to meet the graduation requirements of the Honours Program may apply to graduate with a General Degree if the requirements for the General Degree are met. Students should note that a specialization is not required to graduate with a General Degree.

Honours B.A. students, except those doing a major in Food, Agricultural, and Resource Economics, must take a minimum of 12.00 credits in courses offered by the College of Arts or the departments of Economics, Geography, Political Science, Psychology, Sociology and Anthropology (in the College of Social and Applied Human Sciences and the College of Management and Economics), the School of Computer Science or the Department of Mathematics and Statistics.

Semester One Requirements
Students in the General and Honours Programs must take:

Semester 1
1.00 credits from the following:

- Art History - ARTH*1220, ARTH*1510
- Chinese - CHIN*1200
- Classical Studies - CLAS*1000
- English - ENGL*1080, ENGL*1200
- European Studies - EURO*1050, EURO*1200
- French Studies - FREN*1000, FREN*1200
- German Studies - GERM*1100, GERM*1110, GERM*2490 (4U Required)
- Greek - GREK*1100
- Hispanic Studies - HISP*1100, HISP*1110
- History - HIST*1010, HIST*1150, HIST*1250
- Italian Studies - ITAL*1060
- Latin - LAT*1100
- Music - MUSC*1060, MUSC*1180, MUSC*1500
- Philosophy - PHIL*1000, PHIL*1010, PHIL*1050
- Portuguese - PORT*1100
- Studio Art - SART*1050, SART*1060
- Theatre Studies - THST*1040, THST*1200
- Women's Studies - WMST*1000

PLUS
1.00 credits from the following:

- Anthropology - ANTH*1120, ANTH*1150
- Economics - ECON*1050
- Geography - GEOG*1200, GEOG*1220, GEOG*1300
- Political Science - POLS*1150, POLS*1400, POLS*1500
- Psychology - PSYC*1000
- Sociology - SOC*1100, SOC*1500

Study at Other Universities
Students contemplating study at another university for credit towards a Bachelor of Arts degree at the University of Guelph should refer to the general regulations governing Letters of Permission in Section VIII--Degree Regulations & Procedures in this calendar.

Students must obtain approval for the Letter of Permission prior to undertaking studies at another institution. Approval of the request depends on good standing in the program with a minimum average of 60%.

The normal limit of credits taken on a Letter of Permission is 2.50 based on Guelph credits. Students with a specialization in languages who want to undertake a program of study in Quebec or abroad should consult the appropriate departmental advisor or the Director of the School of Languages and Literatures.

Special Study Options

London Study Semester
A special program of studies designed to make use of the uniquely rich resources of London, England, is offered as a regular part of the B.A. program every Fall semester. The program is supervised by a faculty member from Guelph who directs the studies in London and supervises correspondence with faculty in Guelph. Courses in London are of 2 kinds: London based courses and correspondence courses. London based courses in music, theatre and fine art are given by British tutors, and the coordinator offers courses in his/her area of interest. Students are also permitted to arrange correspondence courses to meet their particular needs. Students wishing to apply for the London Semester should have good academic standing and should have completed at least 2 semesters at the University of Guelph at the time of application; although preference will be given to those with a cumulative average of 70% or above, all applications will be given careful consideration. More detailed information about academic requirements, bursaries, courses, etc. can be obtained from the B.A. Program Counselling Office, Room 130 in the MacKinnon Building.

The University of Guelph offers many other Study Abroad and Exchange opportunities for students to enrich their learning experience. Bachelor of Arts students are encouraged to participate in any of the diverse options available. Courses taken while on exchange or study abroad can be used as electives or core requirements. For further information on the programs available, please refer to Section V- International Study. Students are advised to meet with a B.A. Program Counsellor to discuss the feasibility of participating in an exchange or semester abroad.

Honours Degree Requirements (BAH)

Honours and General Specializations Available in the B.A. Degree

General Program Areas of Concentration

- Anthropology
- English
- French Studies
- Geography
- Hispanic Studies
- History
- International Development
- Mathematics
- Music
- Philosophy
- Political Science
- Sociology
- Statistics
Anthropology (ANTH)
Department of Sociology and Anthropology, College of Social and Applied Human Sciences

The Department of Sociology and Anthropology offers three types of courses: sociology courses with the prefix SOC*; anthropology courses with the prefix ANTH*; and departmental courses with the prefix SOAN*. The departmental category of courses recognizes the fact that the disciplines of sociology and sociocultural anthropology have developed in tandem and it is possible to identify large areas of overlap and convergence in the work of practitioners both historically and in the present. Departmental courses include most of the core theory and methods courses as well as many elective courses. They contribute equally to the subject matter of sociology as well as the subject matter of sociocultural anthropology for purposes of the undergraduate programs of study in both disciplines. Please see the listings for all courses required for the Anthropology program. Note: the following course may be used towards an anthropology specialization: ISS*2990.

Courses will normally be offered in the semesters designated. Please check with the department for information about additional semester offerings. In addition to regularly scheduled courses, students may elect to do independent study. A student who wishes to do a reading course should first consult the professor with whom he/she wishes to work. Please note, a student is allowed a total of 1.00 credits only for reading courses.

Area of Concentration (General Program)
A minimum of 5.00 credits is required, including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTH*1150</td>
<td>0.50 Introduction to Anthropology</td>
</tr>
<tr>
<td>ANTH*2160</td>
<td>0.50 Social Anthropology</td>
</tr>
<tr>
<td>ANTH*2230</td>
<td>0.50 Regional Ethnography</td>
</tr>
<tr>
<td>ANTH*3690</td>
<td>0.50 History of Anthropological Thought</td>
</tr>
<tr>
<td>ANTH*3770</td>
<td>0.50 Kinship and Social Organization</td>
</tr>
<tr>
<td>SOAN*2120</td>
<td>0.50 Introductory Methods</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>MUSC*2270</td>
<td>0.50 World Music</td>
</tr>
<tr>
<td>PHIL*2100</td>
<td>0.50 Critical Thinking</td>
</tr>
</tbody>
</table>

1.00 additional credits in ANTH
0.50 additional credits in SOAN

Note: 1.00 credits of these additional credits must be completed at the 3000 level or above.

Major (Honours Program)
A minimum of 9.00 credits is required, including:

<table>
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<tr>
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</tr>
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<tr>
<td>ANTH*1150</td>
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<td>0.50 Regional Ethnography</td>
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<tr>
<td>ANTH*3690</td>
<td>0.50 History of Anthropological Thought</td>
</tr>
<tr>
<td>ANTH*3770</td>
<td>0.50 Kinship and Social Organization</td>
</tr>
<tr>
<td>ANTH*4700</td>
<td>0.50 Issues in Contemporary Anthropological Theory</td>
</tr>
<tr>
<td>SOAN*2120</td>
<td>0.50 Introductory Methods</td>
</tr>
<tr>
<td>SOAN*3070</td>
<td>0.50 Qualitative and Observational Methods</td>
</tr>
</tbody>
</table>

Two of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING*1000</td>
<td>0.50 Introduction to Linguistics</td>
</tr>
<tr>
<td>MUSC*2270</td>
<td>0.50 World Music</td>
</tr>
<tr>
<td>PHIL*2100</td>
<td>0.50 Critical Thinking</td>
</tr>
</tbody>
</table>

2.00 additional credits in ANTH
2.00 additional credits in SOAN

Note: 1.00 of these additional credits must be completed at the 4000 level.
Note: SOAN*3120 is recommended, especially for students planning to enter graduate programs.

Minor (Honours Program)
A minimum of 5.00 credits is required, including:

<table>
<thead>
<tr>
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<tr>
<td>ANTH*1150</td>
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<tr>
<td>ANTH*2160</td>
<td>0.50 Social Anthropology</td>
</tr>
<tr>
<td>ANTH*2230</td>
<td>0.50 Regional Ethnography</td>
</tr>
<tr>
<td>ANTH*3690</td>
<td>0.50 History of Anthropological Thought</td>
</tr>
<tr>
<td>ANTH*3770</td>
<td>0.50 Kinship and Social Organization</td>
</tr>
<tr>
<td>SOAN*2120</td>
<td>0.50 Introductory Methods</td>
</tr>
</tbody>
</table>

One of:

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<th>Credits</th>
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<tbody>
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<td>0.50 World Music</td>
</tr>
<tr>
<td>PHIL*2100</td>
<td>0.50 Critical Thinking</td>
</tr>
</tbody>
</table>

1.00 additional credits in ANTH
0.50 additional credits in SOAN

Note: 1.00 of these additional credits must be completed at the 3000 level or above.

The schedule of studies for each minor is given on the following pages under its subject heading.
**Applied Mathematics and Statistics (Co-op) (APMS:C)**

**Major (Honours Program)**

Students may enter this major in Semester 1 or any semester thereafter; students entering later than Semester 1 may require more than 8 semesters to complete the program. A student wishing to declare the major must consult the Faculty Advisor. A minimum of 20.00 credits is required to complete this program which includes 5.00 credits in Mathematics, 2.50 credits in Statistics, an additional 2.00 credits in Mathematics or Statistics at the 3000 level, and an additional 2.00 credits in Mathematics or Statistics at the 4000 level, 1.00 credits in Computing and Information Science, 3.00 credits in Arts and Social Sciences courses, and 4.5 credits unrestricted electives.

**Semester 1 - Fall**

CIS*1500 [0.50] Introduction to Programming  
MATH*1200 [0.50] Calculus I  
1.50 electives from Arts and Social Sciences **

**Semester 2 - Winter**

CIS*2500 [0.50] Intermediate Programming  
COOP*1100 [0.00] Introduction to Co-operative Education  
MATH*1210 [0.50] Calculus II  
STAT*2040 [0.50] Statistics I  
1.00 electives from Arts and Social Sciences **

**Summer Semester**

No study semester or work term.

**Semester 3 - Fall**

MATH*2000 [0.50] Set Theory  
MATH*2160 [0.50] Linear Algebra I  
MATH*2200 [0.50] Advanced Calculus I  
STAT*2050 [0.50] Statistics II  
0.50 electives from Arts and Social Sciences **

**Winter Semester**

COOP*1000 [0.00] Co-op Work Term I

**Semester 4 - Summer**

MATH*2170 [0.50] Differential Equations I  
2.00 electives

**Fall Semester**

COOP*2000 [0.00] Co-op Work Term II

**Semester 5 - Winter**

MATH*2210 [0.50] Advanced Calculus II  
MATH*2130 [0.50] Numerical Methods  
0.50 credits in Mathematics or Statistics at the 3000 level or above.  
1.00 electives

**Summer Semester**

COOP*3000 [0.00] Co-op Work Term III

**Semester 6 - Fall**

STAT*3100 [0.50] Introductory Mathematical Statistics I  
STAT*3240 [0.50] Applied Regression Analysis  
At least 1.00 credits from:  
MATH*3100 [0.50] Differential Equations II  
MATH*3200 [0.50] Real Analysis  
MATH*3240 [0.50] Operations Research  
0.50 electives

**Semester 7 - Winter**

STAT*3110 [0.50] Introductory Mathematical Statistics II  
1.50 credits in Mathematics or Statistics at the 3000 level or above.  
0.50 electives

**Summer Semester**

COOP*4000 [0.00] Co-op Work Term IV

**Semester 8 - Fall**

2.00 credits in Mathematics or Statistics at the 4000 level.  
0.50 electives

** Major and Minor are listed below.**

**Student Counselling**

The students who elect to take a substantial number of courses in Art History and all courses that carry the objective of graduate work are advised to obtain counselling from faculty regarding their choices. It is important to know that graduate studies in Art History will usually require a reading knowledge of at least 2 languages other than English. German, French, Italian and Latin are among the most useful choices. Cognate electives in other disciplines in the College of Arts (such as History) will almost certainly prove an asset.

**Art History Core Requirements**

All students are required to complete the following core courses [1.50 credits]:

- ARTH*1220 [0.50] The Visual Arts Today
- ARTH*1510 [0.50] Art Historical Studies I
- ARTH*1520 [0.50] Art Historical Studies II

**Major (Honours Program)**

A minimum of 9.00 credits is required, including:

a. the Art History core
   1. ARTH*1220, ARTH*1510, ARTH*1520.
   2. ARTH*2540
   3. ARTH*2550 or ARTH*2590
   4. One of ARTH*2280, ARTH*2290, ARTH*2580, ARTH*2600
   5. At least 1.00 credits of the 3000-level thematic courses: ARTH*3100, ARTH*3200, ARTH*3310, ARTH*3320, ARTH*3330, ARTH*3340, ARTH*3520, EURO*3150

b. 2.00 credits from the Western Art and Cross-Cultural Perspectives including:
   1. ARTH*2950, ARTH*2600
   2. At least 1.00 credits of the 3000-level thematic courses: ARTH*3100, ARTH*3200, ARTH*3310, ARTH*3320, ARTH*3330, ARTH*3340, ARTH*3520, EURO*3150

**Minor (Honours Program)**

A minimum of 5.00 credits is required, including:

a. The Art History core (ARTH*1220, ARTH*1510, ARTH*1520)

b. 3.50 additional credits in Art History including 0.50 credits in each of the three areas of focus and at least 2.00 credits at the 3000 or 4000 level.

**Areas of Focus**

**Western Art and Cross-Cultural Perspectives**

ARTH*2150 [0.50] Art and Archaeology of Greece  
ARTH*2280 [0.50] Modern Architecture  
ARTH*2290 [0.50] History of Photographic Media  
ARTH*2540 [0.50] Medieval Art  
ARTH*2550 [0.50] The Italian Renaissance  
ARTH*2580 [0.50] Late Modern Art: 1900-1950  
ARTH*2600 [0.50] Early Modern Art to 1900  
ARTH*2950 [0.50] Baroque Art  
ARTH*3100 [0.50] Perspectives: Structure & Space in Western Art  
ARTH*3150 [0.50] Space: Roman Art and Urbanism  
ARTH*3200 [0.50] Colour: Practice & Meanings in Western Art  
ARTH*3310 [0.50] Image: Pictures & Their Power  
ARTH*3320 [0.50] Lives: Aspects of Western Art  
ARTH*3330 [0.50] Display: Visual Culture in Western Europe  
ARTH*3340 [0.50] The Art Object & Material Culture  
ARTH*3520 [0.50] Idea: Art Since 1950  
ARTH*4330 [1.00] Topics in Art & Visual Culture III  
ARTH*4340 [1.00] Topics in Art & Visual Culture IV
Arts of the Americas

ARTH*2050  [0.50] Modern Latin American Art
ARTH*2060  [0.50] Aboriginal Arts in the Americas
ARTH*2070  [0.50] Art of the USA
ARTH*2490  [0.50] History of Canadian Art
ARTH*3010  [0.50] Contemporary Canadian Art
ARTH*3050  [0.50] Pre-Columbian Art
ARTH*3060  [0.50] Public Art
ARTH*4310  [1.00] Topics in Art & Visual Culture I
ARTH*4320  [1.00] Topics in Art & Visual Culture II

Art Theory, Critical Methodology and Museology

ARTH*2120  [0.50] Introduction to Museology
ARTH*2480  [0.50] Introduction to Art Theory and Criticism
ARTH*3210  [0.50] Critical Issues in Art History
ARTH*3220  [0.50] Nationalism & Identity in Art
ARTH*3780  [0.50] Gender and Art
ARTH*4350  [1.00] Topics in Art & Visual Culture V
ARTH*4620  [0.50] Museum Studies

Note: Details of advanced standing for transfer students from the Ontario College of Art can be found in the section on Admission Information.

Business Administration (BADM)

Department of Economics and Finance, College of Management and Economics

Interdisciplinary study in Business Administration is offered as a minor in the honours program. Students in this program will be counselled by the Department of Economics and Finance. It is possible for students to pursue a more intensive program in the area of business administration and economics; see the heading Economics (ECON) or Mathematical Economics (MAEC) in the B.A. degree and the heading Management Economics (MEF) in the B.Comm. degree.

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

- ACCT*2220  [0.50] Financial Accounting
- ACCT*2230  [0.50] Management Accounting
- ECON*1050  [0.50] Introductory Microeconomics
- ECON*1100  [0.50] Introductory Macroeconomics
- ECON*2310  [0.50] Intermediate Microeconomics
- ECON*2410  [0.50] Intermediate Macroeconomics
- ECON*2560  [0.50] Theory of Finance
- MCS*1000  [0.50] Introductory Marketing
- MCS*3040  [0.50] Business and Consumer Law

One of:
- BUS*2090  [0.50] Individuals and Groups in Organizations
- FARE*3310  [0.50] Operations Management

Classical Studies (CLAS)

School of Languages and Literatures, College of Arts

The program in Classical Studies is intended particularly for students interested in Greek and Roman culture, society and history.

Core Requirements

a. CLAS*1000, plus EITHER (GREK*1100, GREK*1110, GREK*2020) OR (LAT*1100, LAT*1110, LAT*2000)
b. one of CLAS*2000, CLAS*2150, CLAS*2350, CLAS*3100
c. one of CLAS*3000, CLAS*3010, CLAS*3020
d. one of CLAS*3030, CLAS*3040
e. one of CLAS*3150, HIST*2850, PHIL*2140

Major (Honours Program)

A minimum of 8.00 credits is required, including:

a. the Classical Studies Core
b. CLAS*4000, CLAS*4150, CLAS*4400
c. 2.50 additional credits in Classics, 1.00 of which may be taken from the following as part of the program:
   d. ENGL*1410  [0.50] Major Writers
      HIST*2200  [0.50] The Medieval World
      LING*1000  [0.50] Introduction to Linguistics

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

a. the Classical Studies Core
b. two of CLAS*4000, CLAS*4150, CLAS*4400

Computing and Information Science (CIS)

Department of Computing and Information Science, College of Physical and Engineering Science

A knowledge of Computing is a complement to most areas of study. The Minor in Computing and Information Science is directed towards students who wish to supplement their studies in another area with some experience in Computing. Students interested in pursuing a Major in Computing can do so through the Bachelor of Computing Degree Program.

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

- CIS*1500  [0.50] Introduction to Programming
- CIS*1910  [0.50] Discrete Structures in Computing I
- CIS*2170  [0.75] User Interface Design
- CIS*2430  [0.50] Object Oriented Programming
- CIS*2500  [0.50] Intermediate Programming
- CIS*2520  [0.50] Data Structures
- CIS*2750  [0.75] Software Systems Development and Integration
- CIS*3530  [0.50] Data Base Systems and Concepts

0.50 additional credits from CIS courses at the 3000 level or above

Criminal Justice and Public Policy (CJPP)

Department of Sociology and Anthropology, and the Department of Political Science, College of Social and Applied Human Sciences

Criminal Justice and Public Policy is offered as a minor in the honours program and as a major in the honours program. It is designed to provide students seeking a career in the criminal justice system, or planning to pursue an advanced degree with a knowledge base that will enable them to pursue their career objectives. The program offers a unique blend of sociological courses dealing with the criminal justice system as well as courses in Political Science dealing with public policy formation and implementation. It also provides students with the conceptual and methodological tools needed for further study.

Students who are not admitted directly into the CJPP major and subsequently wish to declare the specialization must apply directly to the department. In order to be eligible, applicants must have a cumulative average of 70% or better in the following foundation courses:

- POLS*1400  [0.50] Issues in Canadian Politics
- POLS*2250  [0.50] Public Administration and Governance
- POLS*2300  [0.50] Canadian Government and Politics
- SOAN*2120  [0.50] Introductory Methods
- SOC*1500  [0.50] Crime and Criminal Justice
- SOC*2700  [0.50] Criminological Theory

Note: The requirement for an average of 70% or better applies only to students admitted to the University of Guelph after 30 April 2002.

Students wishing to declare the CJPP minor must also meet the above requirement.

Students from other institutions who transfer to the University of Guelph and wish to declare the CJPP major or minor must also meet the above requirement. If an external transfer student is granted credit for one or more of the foundation courses listed above, then he or she must attain a cumulative average of 70% or better in the remaining required CJPP foundation courses.

Note: There is no CJPP Area of Concentration in the General Program as of Fall 2002.

Major (Honours Program)

A minimum of 9.00 credits is required, including:

- PHIL*1010  [0.50] Introductory Philosophy: Social and Political Issues
- POLS*1400  [0.50] Issues in Canadian Politics
- POLS*2250  [0.50] Public Administration and Governance
- POLS*2300  [0.50] Canadian Government and Politics
- SOAN*2120  [0.50] Introductory Methods
- SOC*1500  [0.50] Crime and Criminal Justice
- SOC*2700  [0.50] Criminological Theory

One of:
- POLS*3650  [0.50] Research Methods II: Quantitative Methods
- SOAN*3120  [0.50] Quantitative Methods

Three of:
- SOC*2070  [0.50] Social Deviance
- SOC*2760  [0.50] Homicide
- SOC*3490  [0.50] Law and Society
- SOC*3710  [0.50] Young Offenders
- SOC*3730  [0.50] Courts and Society
- SOC*3740  [0.50] Corrections and Penology
- SOC*3750  [0.50] Police in Society

Three of:
- POLS*3110  [0.50] Politics of Ontario
- POLS*3130  [0.50] Law, Politics and Judicial Process
- POLS*3210  [0.50] The Constitution and Canadian Federalism
- POLS*3250  [0.50] Public Policy: Challenges and Prospects
- POLS*3300  [0.50] Governing Criminal Justice
- POLS*3440  [0.50] Corruption, Scandal and Political Ethics
- POLS*3670  [0.50] Comparative Public Policy and Administration

One of:
Three of:

- **POLS*4050** [0.50] Advanced Topics in Law and Politics
- **POLS*4100** [0.50] Women, Justice and Public Policy
- **POLS*4160** [0.50] Multi-Level Governance in Canada
- **POLS*4250** [0.50] Topics in Public Management
- **POLS*4260** [0.50] Topics in Public Policy
- **POLS*4740** [0.50] Advanced Topics in Rights and Liberties
- **SOC*4010** [0.50] Violence and Society
- **SOC*4030** [0.50] Advanced Topics in Criminology
- **SOC*4200** [0.50] Advanced Topics in Criminal Justice
- **SOC*4900** [0.50] Honours Sociology Thesis I
- **SOC*4910** [0.50] Honours Sociology Thesis II

**Minor (Honours Program)**

A minimum of 5.00 credits is required, including:

- PHIL*1010 [0.50] Introductory Philosophy: Social and Political Issues
- **POLS*1400** [0.50] Issues in Canadian Politics
- **POLS*2250** [0.50] Public Administration and Governance
- **POLS*2300** [0.50] Canadian Government and Politics
- **SOAN*2120** [0.50] Introductory Methods
- **SOC*1500** [0.50] Crime and Criminal Justice
- **SOC*2700** [0.50] Criminological Theory

1.50 credits from the following list, including one SOC and one POLS:

- **POLS*3110** [0.50] Politics of Ontario
- **POLS*3130** [0.50] Law, Politics and Judicial Process
- **POLS*3210** [0.50] The Constitution and Canadian Federalism
- **POLS*3300** [0.50] Governing Criminal Justice
- **POLS*3250** [0.50] Public Policy: Challenges and Prospects
- **POLS*3440** [0.50] Corruption, Scandal and Political Ethics
- **POLS*3670** [0.50] Comparative Public Policy and Administration
- **SOC*2070** [0.50] Social Deviance
- **SOC*2760** [0.50] Homicide
- **SOC*3490** [0.50] Law and Society
- **SOC*3710** [0.50] Young Offenders
- **SOC*3730** [0.50] Courts and Society
- **SOC*3740** [0.50] Corrections and Penology
- **SOC*3750** [0.50] Police in Society

**Economics (ECON)**

**Department of Economics and Finance, College of Management and Economics**

The Department of Economics and Finance offers courses in economic theory, applied economics and quantitative methods. Students may take courses leading to a B.A. in the honours. It is possible to combine Economics with various other disciplines such as mathematics and statistics, business administration, political science, geography and history. Students are urged to consult the department’s program planning guide and the department’s advisors for detailed information about courses and programs and about the course of study most appropriate as preparation for graduate work in economics or business administration, for professional degrees such as the Bachelor's degree in Law, and for careers in business and government.

**Core Requirements**

- **ECON*1050** [0.50] Introductory Microeconomics
- **ECON*1100** [0.50] Introductory Macroeconomics
- **ECON*2310** [0.50] Intermediate Microeconomics
- **ECON*2410** [0.50] Intermediate Macroeconomics
- **ECON*2740** [0.50] Economic Statistics

One of:

- **MATH*1030** [0.50] Business Mathematics
- **MATH*1080** [0.50] Elements of Calculus I
- **MATH*1200** [0.50] Calculus I

**Major (Honours Program)**

A minimum of 9.50 credits in Economics is required, including:

The Economics core requirements

- **ECON*2770** [0.50] Introductory Mathematical Economics
- **ECON*3710** [0.50] Advanced Microeconomics
- **ECON*3740** [0.50] Introduction to Econometrics
- **ECON*3810** [0.50] Advanced Macroeconomics
- **ECON*4710** [0.50] Advanced Topics in Microeconomics
- **ECON*4810** [0.50] Advanced Topics in Macroeconomics

One of:

- **ECON*3100** [0.50] Game Theory
- **ECON*4700** [0.50] Advanced Mathematical Economics

One of:

- **ECON*2770** [0.50] Business History
- **ECON*3550** [0.50] North American Economic History
- **ECON*3720** [0.50] History of the World Economy Since 1850
- **ECON*3730** [0.50] Europe and the World Economy to 1914
- **ECON*4720** [0.50] Topics in Economic History

2.50 other credits in Economics at the 3000 or 4000 level, at least 1.50 of which must be at the 4000 level

**Note:** Students contemplating graduate studies in Economics should take ECON*4640, Applied Econometrics and ECON*4840, Applied Econometrics II.

**Minor (Honours Program)**

A minimum of 5.00 credits in Economics is required, including:

a. the Economics core

b. 2.00 other credits in Economics at the 3000 or 4000 level

**Notes:**

1. ECON*3740 is recommended.

2. Students wishing to pursue a more structured Economics minor should take ECON*3710 as well as ECON*3740.

3. Only one of ECON*2200 or ECON*3200 may be counted towards the minor. ECON*4800 may not be counted at the 4000 level for purposes of satisfying the minimum 4000 level credit requirements in the B.A. Honours Economics major. Only one of ECON*4900 or ECON*4910 may count in the B.A. program towards the minimum 4000 level requirement.

**Economics (Co-op) (ECON:C)**

**Department of Economics and Finance, College of Management and Economics**

The Economics Co-op program provides an integrated academic/work experience for students with co-operating employer organizations. Students in the program complete 4-5 work terms while fulfilling the requirements of their honours Economics program.

All co-op students must complete the Economics core plus an introductory computer science course (CIS*), ECON*2770 and ECON*3740 in their first 4 semesters. Admission in the co-op program is limited to students of high academic standing and will be considered only at semester 1 entry or at the end of semester 2. The first 2 work terms normally follow completion of the first 4 semesters of academic study. Students will only be permitted to take these work terms if they are eligible to continue in the Honours Economics program, have completed the required courses and are maintaining a satisfactory standing in their Economics program. The 3rd and 4th work terms will normally follow the 6th academic semester. For further information on the Economics Co-op program students are urged to consult the department's Program Guide and Co-operative Education Programs in Section X-degree Programs in this calendar.

Students should review the Economics section in the schedule of studies for additional program information.

**Major (Honours Program)**

**Semester 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
<td>Introductory Microeconomics</td>
</tr>
</tbody>
</table>

One of:

- Math*1000 0.50 Introductory Calculus
- MATH*1030 0.50 Business Mathematics
- MATH*1080 0.50 Elements of Calculus I
- MATH*1200 0.50 Calculus I

1.50 electives

**Semester 2 (Winter)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1100</td>
<td>0.50</td>
<td>Introductory Macroeconomics</td>
</tr>
</tbody>
</table>

One computer science course

1.50 electives

**Summer Semester**

Optional -- at the discretion of the student.

**Semester 3 (Fall)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*1100</td>
<td>0.00</td>
<td>Introduction to Co-operative Education</td>
</tr>
<tr>
<td>ECON*2310</td>
<td>0.50</td>
<td>Intermediate Microeconomics</td>
</tr>
<tr>
<td>ECON*2410</td>
<td>0.50</td>
<td>Intermediate Macroeconomics</td>
</tr>
<tr>
<td>ECON*2740</td>
<td>0.50</td>
<td>Economic Statistics</td>
</tr>
<tr>
<td>ECON*2770</td>
<td>0.50</td>
<td>Introductory Mathematical Economics</td>
</tr>
</tbody>
</table>

0.50 electives

**Semester 4 (Winter)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3740</td>
<td>0.50</td>
<td>Introduction to Econometrics</td>
</tr>
</tbody>
</table>

One economic history course*

1.50 electives

**Summer Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*1000</td>
<td>0.00</td>
<td>Co-op Work Term I</td>
</tr>
</tbody>
</table>

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*2000</td>
<td>0.00</td>
<td>Co-op Work Term II</td>
</tr>
</tbody>
</table>
Advanced Macroeconomics

Semester 5 (Winter)
ECON*3810 [0.50] Advanced Macroeconomics
One of:
ECON*3100 [0.50] Game Theory
ECON*4700 [0.50] Advanced Mathematical Economics
One 3000 level economics course
1.00 electives

Summer Semester
COOP*3000 [0.00] Co-op Work Term III

Semester 6 (Fall)
ECON*3710 [0.50] Advanced Microeconomics
One 4000 level Economics course (ECON*4640 is recommended)
1.50 electives

Winter Semester
COOP*4000 [0.00] Co-op Work Term IV

Summer Semester
COOP*5000 [0.00] Co-op Work Term V

Semester 7 (Fall)
ECON*4710 [0.50] Advanced Topics in Microeconomics
One 4000 level Economics course
1.00 electives
0.50 restricted electives

Semester 8 (Winter)
ECON*4810 [0.50] Advanced Topics in Macroeconomics
0.50 credits in Economics at the 4000 level
1.50 electives
*the economic history course may be taken in any semester

English (ENGL)

School of English and Theatre Studies, College of Arts
The School of English and Theatre Studies offers courses in the B.A. Program in English that focus on the study of literature and related texts across a broad range of theoretical, historical, and geographical sites. The School also welcomes non-majors into its courses at the 1000, 2000, and 3000 levels, suitable to other majors within the College of Arts and beyond. Courses in English (ENGL) may be chosen towards a degree in English. Consult the School of English and Theatre Studies for details.

First-year students registered in or considering one of the programs in English should register for ENGL*1080 in the first semester and ENGL*2080 in the second semester.

Area of Concentration (General Program)
A minimum of 5.00 English credits is required in the English core and the English electives. English elective courses must be chosen to fulfill the Distribution Requirements for the Area of Concentration.

English core - 2.00 credits as follows:
1. ENGL*1080, ENGL*2080, ENGL*2120
2. One of ENGL*2130, ENGL*3940, ENGL*3960
English electives - 3.00 credits to include:
1. 2.50 credits from 3000 level lecture courses
2. 0.50 credits from any other lecture or seminar course
3. Distribution requirements as listed below.

Distribution Requirements for the Area of Concentration:
The electives must be chosen to ensure that 0.50 credits are completed in each of the following three fields:
• Medieval and Early Modern Literature
• 18th- and 19th-century Literature
• 20th- and 21st-century Literature
Of these 1.50 credits, at least 0.50 must be in Canadian Literature.

Note: Please visit the School of English and Theatre Studies website: [http://www.arts.uoguelph.ca/sets](http://www.arts.uoguelph.ca/sets) for a list of courses that fulfill these requirements.

Major (Honours Program)
A minimum of 8.50 English credits is required in the English core and the English electives. English elective courses must be chosen to fulfill the Distribution Requirements for the Major.

English core - 3.00 credits as follows:
1. ENGL*1080, ENGL*2080
2. ENGL*2120, ENGL*2130, ENGL*3940, ENGL*3960
English electives - 5.50 credits to include:
1. 2.50 credits from 3000 level lecture courses
2. 2.00 credits from 4000 level courses
3. 1.00 credits from any other lecture or seminar course

Distribution Requirements as listed below
Distribution Requirements for the Major:
The electives must be chosen to ensure that 1.00 credits are completed in each of the following fields:
• Medieval and Early Modern Literature
• 18th- and 19th-century Literature
• 20th- and 21st-century Literature
Of these 3.00 credits, at least 0.50 credits must be in Canadian Literature.

Honours students interested in a more concentrated program or contemplating graduate work in English are strongly advised to:
• attain a good reading knowledge of another language, such as French
• take ENGL*3380 (Studies in the History of Literary Production), ENGL*3690 (History of Literary Criticism), ENGL*4890 (Contemporary Literary Theory)

The M.A. program in English at Guelph gives preference to qualified applicants with a broad experience in literary and cultural studies and related disciplines.

Minor (Honours Program)
The program of study and requirements are the same as for the Area of Concentration in the General Program.

Environmental Governance (EGOV)

Interdisciplinary Program
Environmental governance refers to the processes through which societies make decisions that affect the environment. Governments have long been dominant players in this context. However, in Canada and around the world, the ability of governments alone to address environmental problems is being called into question. As a result, contemporary environmental governance increasingly involves citizens, non-government organizations, and businesses.

The interdisciplinary Major in Environmental Governance introduces students to the challenges of environmental governance. Through completing courses from the disciplines of geography, political science, agricultural economics, and economics, students will receive: a solid foundation in the processes and mechanisms of environmental governance in Canada and elsewhere; an understanding of geographical, political, and economic factors that shape governance in Canada and around the world; and exposure to innovative approaches to environmental governance that address persistent and emerging societal concerns. Students completing the major will have the skills and experiences needed to participate effectively in environmental governance in a variety of settings. Hence, they will find careers in the public sector, in environmental non-government organizations, and, increasingly, in the private sector.

Completion of required courses, and careful selection from among optional courses, will facilitate students completing a minor in Geography, Political Science, or Economics. Minors in other programs also may complement the Major in Environmental Governance.

Major (Honours Program)
A minimum of 11.50 credits, consisting of 11.00 credits from the courses specified below, plus 0.50 credits from other 4000 level courses in Geography; Political Science; Food, Agricultural and Resource Economics (Agricultural Economics); or Economics:

ECON*1050 [0.50] Introductory Microeconomics
EDRD*2650 [0.50] Introduction to Planning and Environmental Law
GEOR*1220 [0.50] Human Impact on the Environment
GEOR*1350 [0.50] Earth: Hazards and Global Change
GEOR*2110 [0.50] Climate and the Biophysical Environment
GEOR*2210 [0.50] Environment and Resources
GEOR*3200 [0.50] Global Environmental Change
GEOR*3210 [0.50] Management of the Biophysical Environment
GEOR*4210 [0.50] Environmental Governance
GEOR*4220 [0.50] Local Environmental Management
GEOR*4230 [0.50] Environmental Impact Assessment
MGMT*3020 [0.50] Corporate Social Responsibility
POLIS*1150 [0.50] Understanding Politics
POLIS*2250 [0.50] Public Administration and Governance
POLIS*3250 [0.50] Public Policy: Challenges and Prospects
POLIS*3370 [0.50] Environmental Politics and Governance

One of:
- GEGO*2030 [0.50] Environment and Development
- GEGO*2230 [0.50] Economic Geography

One of:
- ECON*2100 [0.50] Economic Growth and Environmental Quality
- FARE*2700 [0.50] Survey of Natural Resource Economics

One of:
- HIST*2230 [0.50] Environment and History
- PHIL*2070 [0.50] Philosophy of the Environment

Last Revision: Oct. 19, 2012
2012-2013 Undergraduate Calendar
Society and Nature

Society and Nature

ECON*2740 [0.50] Economic Statistics
GEOG*2460 [0.50] Analysis in Geography
STAT*2040 [0.50] Statistics I

One of:

GERM*2570 [0.50] Cost-Benefit Analysis
POLS*3210 [0.50] The Constitution and Canadian Federalism
POLS*3270 [0.50] Local Government in Ontario
POLS*3470 [0.50] Business-Government Relations in Canada
POLS*3790 [0.50] The Political Economy of International Relations

One of:

GERM*2490 [0.50] Land Economics
GERM*3410 [0.50] Resource Economics

At least 0.50 additional credits at the 4000 level from Geography; Political Science; Food, Agricultural and Resource Economics (FARE); or Economics. Students are advised to contact an Environmental Governance Faculty Advisor for a list of recommended 4000 level courses.

*Note: Courses marked with an asterisk* may require the completion of additional prerequisites not included in the requirements for the Environmental Governance major. Students should consult the most recent Undergraduate Calendar (Chapter XII – Course Descriptions) for specific prerequisites.

Ethics in Life Sciences (ELS)

Department of Philosophy, College of Arts

This program draws together critical and foundational analysis of the sciences (scientific method and concepts) with the philosophical disciplines of pure and applied ethics. The program will be of particular interest to students seeking to become skilled at interpreting and discussing concrete scientific developments and at analyzing and evaluating ethical issues in the life sciences.

Minor (Honours Program)

A minimum of 5.00 credits in Philosophy is required, including:

1. PHIL*2120, PHIL*2180, PHIL*3450
2. At least 2 of the following courses (minimum 1.00 credits): PHIL*2070, PHIL*2030, PHIL*3170, PHIL*3240, PHIL*4040
3. At least 2 of the following courses in Ethics (minimum 1.00 credits): PHIL*2060, PHIL*2600, PHIL*3040, PHIL*3230, PHIL*4060, PHIL*4230, PHIL*4310, PHIL*4340
4. At least 2 of the following courses in Epistemology (minimum 1.00 credits): PHIL*2160, PHIL*2170, PHIL*2250, PHIL*2370, PHIL*3130, PHIL*3180, PHIL*3190, PHIL*3460, PHIL*4370, PSYC*3280
5. Additional credits in Philosophy

Students must have at least 2.00 credits in Philosophy at the 3000 level or above.

NOTE: PSYC*3280 counts as a Philosophy credit.

European Culture and Civilization (ECC)

The minor in European Culture and Civilization is designed for students interested in the interdisciplinary study of European culture and history. If offers a combination of languages, history of European culture, literature, the arts, philosophy, history and political science.

Note: the minor is not open to European Studies majors.

Minor (Honours Program)

Note: some of the courses below (the language courses, some 3000 and 4000 level courses in lists A, B, C, D) have prerequisites not included in the minor.

A minimum of 5.00 credits, at least 1.00 of which must be at the 3000 level or above, is required, including:

1. EURO*1200 [0.50] European Culture from the Middle Ages to the 19th Century
2. EURO*2200 [0.50] European Culture from the Mid 19th Century to the 1920s
3. EURO*2300 [0.50] European Culture since 1920

2.00 credits in one language, at second or third year level, chosen from the following list:

FREN*2020 [0.50] France: Literature and Society
FREN*2030 [0.50] French Language II
FREN*2520 [0.50] French Composition I
FREN*2540 [0.50] Spoken French: Theory and Practice
FREN*3520 [0.50] French Composition II
FREN*3530 [0.50] Business French

OR

GERM*2050 [0.50] Introduction to Literature
GERM*2400 [0.50] Contemporary Germany
GERM*2490 [0.50] Intermediate German I
GERM*2500 [0.50] Intermediate German II

GERM*3500 [0.50] Advanced German

GERM*2560 [0.50] Themes in German Literature/Culture
GERM*2590 [0.50] Classics of German Literature
GERM*3530 [0.50] Advanced German

ITAL*2090 [1.00] Intermediate Italian
ITAL*2100 [0.50] Renaissance Lovers and Fools
ITAL*3060 [0.50] Advanced Italian
ITAL*3150 [0.50] Medieval Italian Literature
ITAL*3200 [0.50] Novels of Resistance
ITAL*3950 [0.50] Topics in Italian Literature

OR

HISP*2000 [0.50] Intermediate Spanish I
HISP*2010 [0.50] Intermediate Spanish II
HISP*2040 [0.50] Culture of Spain
HISP*2990 [0.50] Hispanic Literary Studies
HISP*3500 [0.50] Advanced Spanish I
HISP*3530 [0.50] Business Spanish

1.50 credits; 0.50 credits from three of the following groups A, B, C and D from the following list:

Group A

CLAS*1000 [0.50] Introduction to Classical Culture
CLAS*2000 [0.50] Classical Mythology
CLAS*2350 [0.50] The Classical Tradition
EURO*3150 [0.50] Topics in European Film
FREN*3000 [0.50] Romanticism & Realism in France (taught in French)
FREN*3010 [0.50] Twentieth-Century French Novel (taught in French)
FREN*3080 [0.50] Pre-Revolution French Literature (taught in French)
HIST*2850 [0.50] Ancient Greece and Rome
HUMN*3400 [0.50] Myth and Fairy Tales in Germany
HUMN*3470 [0.50] Renaissance Lovers and Fools
HUMN*3470 [0.50] Holocaust & WWII in German Lit. & Film

Note: Other Hispanic literature courses may be counted in this section provided the course-content is European-centered. Please see the ESP coordinator for further information.

Group B

HIST*1010 [0.50] The Early Modern World
HIST*2200 [0.50] The Medieval World
HIST*2510 [0.50] Modern Europe Since 1789
HIST*2820 [0.50] Modern France Since 1750
HIST*3230 [0.50] Spain and Portugal, 1085 to 1668
HIST*3350 [0.50] Modern Germany
HIST*3540 [0.50] World War II
HIST*3750 [0.50] World War II
HIST*3820 [0.50] Early Modern France
HIST*4090 [1.00] Modern European History
HIST*4470 [0.50] Special History Project Seminar I
HIST*4580 [1.00] The French Revolution

Group C

ARTH*1510 [0.50] Art Historical Studies I
ARTH*1520 [0.50] Art Historical Studies II
ARTH*2550 [0.50] The Italian Renaissance
ARTH*2580 [0.50] Late Modern Art: 1900-1950
ARTH*2600 [0.50] Early Modern Art to 1900
ARTH*3100 [0.50] Perspectives: Structure & Space in Western Art
ARTH*3320 [0.50] Lives: Aspects of Western Art
ARTH*3330 [0.50] Display: Visual Culture in Western Europe
ARTH*3340 [0.50] The Art Object & Material Culture
MUSC*1060 [0.50] “Classical” Music: Context and Codes
MUSC*2010 [0.50] The Musical Avant-Garde
MUSC*2280 [0.50] Masterworks of Music

Note: other music history courses may be counted if students with knowledge of music are granted waivers by instructor. The substitution(s) must also be approved by the ESP coordinator.

Group D

PHIL*2140 [0.50] History of Greek and Roman Philosophy
PHIL*2160 [0.50] Modern European Philosophy to Hume
PHIL*3060 [0.50] Medieval Philosophy
PHIL*3080 [0.50] History of Modern European Philosophy from Kant
PHIL*3200 [0.50] Contemporary European Philosophy
POLS*2000 [0.50] Political Theory
POLS*2100 [0.50] Comparative Politics
POLS*2200 [0.50] International Relations
POLS*3450 [0.50] European Governments and Politics
European Studies (EURS)

Interdisciplinary Program

The European Studies program is designed for students who seek a career in International Relations - especially in International Business and Administration - between Canada and Europe. It offers a combination of languages, specialized designed courses in European thought, letters and history and specialization in either Business European or European Culture and Civilization.

Successful completion of the European Studies major requires proficiency in one of the following languages (French, German, Italian or Spanish). In order to demonstrate language proficiency, students have two options: they may study for a year at a European University, in the country where their chosen core language is spoken, or they may write a final research paper in the chosen core language within a required fourth year European Studies course (see EURO*4740). It is highly recommended that students spend their third year studying at a European university, in the country where their chosen core language is spoken. The benefits of such an experience are considerable, both academically and personally. One specific academic outcome of a successful year abroad will be the recognition that the student has fulfilled the program’s core language requirement. For students who have spent one year studying at a European university in a country where their chosen core language is spoken, a course in that year involving a major academic paper or exam in the core language will, upon approval of the Co-ordinator of European Studies, be substituted for EURO*4740. See the Coordinator for the European Studies program for more information. See also the course description for EURO*4740.

Major (Honours Program)

A minimum of 12.50 credits is required, including:

a. the three components of the European Studies core (7.50 credits)

b. 5.00 credits in either the European Culture and Civilization or the European Business Studies area of emphasis

Core Requirements

1. [0.50] EURO*1050 The Emergence of a United Europe

2. [0.50] EURO*1200 Europe from the Middle Ages to the 15th Century

3. [0.50] EURO*2200 European from the 16th Century to the 19th Century

4. [0.50] EURO*2300 European Culture since 1920

5. [0.50] EURO*4740 Research Project in European Studies

Note: in order to demonstrate language proficiency, students must write a research paper (EURO*4740) in their core language unless they have spent one year studying at a European university, in the country where their chosen core language is spoken. Where that is the case, a course taken in that year involving a major academic paper of exam in the core language will, upon approval of the Co-ordinator for European Studies, EURO*4740.

2. 3.00 credits in one language:

   a. [0.50] FREN*2020 France: Literature and Society

   b. [0.50] FREN*2030 French Language II

   c. [0.50] FREN*2520 French Composition I

   d. [0.50] FREN*2540 Spoken French: Theory and Practice

   e. [0.50] FREN*3520 French Composition II

   f. [0.50] FREN*3530 Business French

   OR

   a. [0.50] GERM*2050 Introduction to Literature

   b. [0.50] GERM*2400 Contemporary Germany

   c. [0.50] GERM*2490 Intermediate German I

   d. [0.50] GERM*2500 Intermediate German II

   e. [0.50] GERM*3500 Advanced German I

   f. [0.50] GERM*3560 Themes in German Literature/Culture

   g. [0.50] GERM*3590 Classics of German Literature

   h. [0.50] GERM*3510 Advanced German II

   OR

   a. [0.50] ITAL*2050 Italian Language I

   b. [0.50] ITAL*2100 Intermediate Italian

   c. [0.50] ITAL*2100 Renaissance Lovers and Fools

   d. [0.50] ITAL*3000 Advanced Italian

   e. [0.50] ITAL*3100 Medieval Italian Literature

   f. [0.50] ITAL*3200 Novels of Resistance

   OR

   a. [0.50] HIS*2000 Intermediate Spanish I

   b. [0.50] HIS*2100 Intermediate Spanish II

   c. [0.50] HIS*2300 Culture of Spain

   d. [0.50] HIS*2990 Hispanic Literary Studies

   e. [0.50] HIS*3500 Advanced Spanish I

   f. [0.50] HIS*3530 Business Spanish

3. BUS*2090 Individuals and Groups in Organizations

   OR

   a. [0.50] CLAS*1000 Introduction to Classical Culture

   b. [0.50] HIST*2510 Modern Europe Since 1789

   OR

   a. [0.50] POLS*3450 European Governments and Politics

Areas of Emphasis

European Business

Required courses:

ACCT*2220 Financial Accounting
ACCT*2230 Management Accounting
ECON*1050 Introductory Microeconomics
ECON*1100 Introductory Macroeconomics
MGMT*3320 Financial Management
MGMT*4260 International Business

2.00 credits chosen from:

   a. [0.50] BUS*3000 Human Resources Management

   b. [0.50] BUS*4250 Business Policy

   c. [0.50] ECON*2200 Intermediate Microeconomics

   d. [0.50] ECON*2310 Intermediate Macroeconomics

   e. [0.50] ECON*2410 Intermediate Macroeconomics

   f. [0.50] ECON*3560 Theory of Finance

   g. [0.50] ECON*3660 Economics of Equity Markets

   h. [0.50] ECON*3720 History of the World Economy Since 1850

   i. [0.50] ECON*3730 Europe and the World Economy to 1914

   j. [0.50] FARE*3310 Operations Management

   k. [0.50] FARE*4370 Food & Ag Marketing Management

   l. [0.50] HTM*1000 Introduction to Hospitality and Tourism Management

   m. [0.50] HTM*2050 Dimensions of Tourism

   n. [0.50] HTM*2120 Hospitality and Tourism Marketing I

   o. [0.50] HTM*3160 Destination Management and Marketing

   p. [0.50] HTM*4170 International Tourism

   q. [0.50] MCS*1000 Introductory Marketing

   r. [0.50] MCS*2100 Personal Financial Management

   s. [0.50] MCS*2600 Fundamentals of Consumer Behaviour

   t. [0.50] MCS*3000 Advanced Marketing

   u. [0.50] MCS*3040 Business and Consumer Law

   v. [0.50] STAT*2060 Statistics for Business Decisions

European Culture and Civilization

Students must take 5.00 credits including at least 0.50 credits from each of the following four groups. The remaining 3.00 credits may be chosen from any of the courses in the four groups.

Group A

CLAS*2000 Classical Mythology
CLAS*2350 The Classical Tradition
EURO*3150 Topics in European Film
FREN*2500 French Translation I (taught in French)
FREN*3000 Romanticism & Realism in France (taught in French)
FREN*3010 Twentieth-Century French Novel (taught in French)
FREN*3080 Pre-revolution French Literature (taught in French)
HIST*2850 Ancient Greece and Rome
HUMN*3020 Myth and Fairy Tales in Germany
HUMN*3400 Renaissance Lovers and Fools
HUMN*3470 Holocaust & WWII in German Lit. & Film

Note: Other Hispanic literature courses may be counted in this section provided the course-content is European-centered. Please see the ESP coordinator for further information.

Group B

HIST*1010 The Early Modern World
HIST*2200 The Medieval World
HIST*2820 Modern France since 1750
HIST*3230 Spain and Portugal, 1085 to 1668
HIST*3350 Modern Germany
HIST*3540 World War II
HIST*3570 Women in Modern Europe
HIST*3750 The Reformation
HIST*3820 Early Modern France
HIST*4099 Modern European History
HIST*4470 Special History Project Seminar I
HIST*4580 The French Revolution

Group C

ARTH*1510 Art Historical Studies I
ARTH*1520 Art Historical Studies II
ARTH*2550 The Italian Renaissance
ARTH*2580 Late Modern Art: 1900-1950
ARTH*2600 Early Modern Art to 1900
ARTH*3100 Perspectives: Structure & Space in Western Art
ARTH*3320 Lives: Aspects of Western Art
ARTH*3330 Display: Visual Culture in Western Europe
ARTH*3340 The Art Object & Material Culture


**Study Abroad**

Year 3 or year 4 will provide students with the opportunity to continue their studies abroad. Students will select up to 6.00 credits which can be included in the area of emphasis, or electives, or both. They are subject to approval by the program coordinator and the departmental advisor. Courses taken in Europe will not count towards the specialization average.

**Practicum Opportunity:**

HUMN*3501/2 is available for those students wishing to participate in a practicum experience as part of the year abroad. The practicum must be a job or volunteer experience that contributes to the student's area of study and intended career. It must be approved in advance as a Letter of Permission by the Coordinator. A final report, written in the student's chosen language, is a requirement of this course.

**Family and Child Studies (FCS)**

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences

Family and Child Studies is offered as a minor in the honours program. It is designed to provide students with an opportunity to pursue interdisciplinary studies which have a specific focus on human development over the life span and on the applied questions which relate to the needs of children and the functioning of families. Elective courses may be chosen to emphasize the family, the child, or a combination of the two. Students seeking counselling should consult with a departmental advisor in the Department of Family Relations and Applied Nutrition.

**Minor (Honours Program)**

A minimum of 5.00 credits is required, including:

- FRHD*1010 [0.50] Human Development
- FRHD*1020 [0.50] Couple and Family Relationships
- FRHD*2270 [0.50] Development in Early and Middle Childhood
- FRHD*3040 [0.50] Parenting and Intergenerational Relationships
- NUTR*1010 [0.50] Nutrition and Society

A further 2.50 credits offered by the Department of Family Relations and Applied Nutrition (FRHD or NUTR*2050), of which at least 1.00 must be at the 3000 level or above.

**Notes:** where students are required to complete PSYC*2450 for their program of study, FRHD*2270 will not be required in the FCS minor. PSYC*2450 will be substituted for FRHD*2270.

**Food, Agricultural and Resource Economics (FARE)**

Department of Food, Agricultural and Resource Economics, Ontario Agricultural College

The Food, Agricultural and Resource Economics major addresses the means by which individuals, acting in a society, achieve their wants and desires with respect to food quality and production, environmental quality and resource use, and broader goals as they relate to the food-resource-agriculture interface. This major builds the student's capacity to address these issues by developing an understanding of economic theory and applied methods in both the Canadian and world context. Beyond the core offering, the major provides the flexibility for students to pursue thematic areas of study, as well as an opportunity to take additional liberal arts courses. In addition, this major provides excellent background for those students planning to undertake graduate work in food, agricultural or resource economics and other fields of applied economics.

**Major (Honours Program)**

A minimum of 10.00 credits, consisting of the 8.50 credits specified below plus 1.50 credits of restricted electives, is required, including:

- ACCT*2220 [0.50] Financial Accounting
- FARE*1300 [0.50] Poverty, Food & Hunger
- FARE*1400 [1.00] Economics of the Agri-Food System
- FARE*2410 [0.50] AgriFood Markets and Policy
- FARE*2700 [0.50] Survey of Natural Resource Economics
- FARE*3030 [0.50] The Firm and Markets
- FARE*4000 [0.50] Agricultural and Food Policy
- ECON*1050 [0.50] Introductory Microeconomics
- ECON*1100 [0.50] Introductory Macroeconomics
- ECON*2310 [0.50] Intermediate Microeconomics
- ECON*2410 [0.50] Intermediate Macroeconomics
- ECON*2740 [0.50] Economic Statistics
- ECON*2770 [0.50] Introductory Mathematical Economics
- ECON*3740 [0.50] Introduction to Econometrics

**Notes:**

1. Students are strongly urged to take 0.50 language credits each semester.
2. Students in the general program may take 4000 level courses, but must previously have taken FREN*3520.
3. Students of French are encouraged to take advantage of the French residence on this campus. Applications for accommodation in the Maison Française should be made well in advance of registration.

4. FREN*1000, FREN*1090, FREN*1100, FREN*1120, FREN*1150, are not counted toward a specialization in French.

5. Native speakers of French (or non-francophone equivalent) will not normally be admitted into FREN*1200 and FREN*2030. It is recommended they start their program with FREN*2020, FREN*2060, FREN*2500, or FREN*2520 with the approval of the Faculty Advisor.

Studies in Quebec or Abroad

The French program encourages students to spend 1 or 2 semesters in a French-speaking province or country, or to pursue their studies in an immersion program at the university level. Credit for programs of study successfully completed may be applied towards the University of Guelph degree requirements. Requests should be addressed well in advance of registration to the Director of the School of Languages and Literatures. A letter of permission is required (see Section VIII--Undergraduate Degree Regulations & Procedures). Students may also take advantage of federal-provincial programs such as the Second-Language Monitor program.

Year in Nice

A special year-long program in Nice, France, is offered to Guelph students at semester levels 5 and 6. All courses for which transfer credits have been arranged are credited at Guelph without the need for letters of permission; students pay only Guelph academic fees and are eligible for OSAP. For further information see the Head of French Studies.

Geography (GEOG)

Department of Geography, College of Social and Applied Human Sciences

The Department of Geography provides students with a broad range of courses in Human and Physical Geography which focus on the nature and evolution of the numerous and complex physical and human environment systems of the world. Students are required to select courses from both the human and physical fields. Within the program of studies it is possible for students through course selection to follow a particular line of interest in, for example, Rural Geography, Resource Management, Urban and Economic Geography, Biophysical Resources or Geomorphology.

The 1000 level courses provide a foundation for the Geography programs and are prerequisites or are strongly recommended for many of the 2000 level courses. The 2000 level systematic courses are prerequisite to the corresponding advanced courses at the 3000 and 4000 level. All students should obtain a copy of the department program planning guide and consult with faculty before planning their course of studies.

Students contemplating graduate or professional programs of study following completion of the honors program should consult a departmental advisor for advice on advanced courses that they should take.

The department also offers a B.SC. honours Earth Surface Science program (jointly with Land Resources Science), a B.SC.(ENV.) honours Environmental Geography Major program, and a B.SC. honours program Minor in Geographic Information Systems and Environmental Analysis which are described in the schedule of studies for each of the programs (Section X). Geography B.A. honours Majors are eligible to take the B.SC. Minor. All Geography students are encouraged to consult with a departmental advisor regarding course selection.

The following courses may be counted as Geography credits: ENV*S*2030, ENV*S*2060, ENV*S*2220, GEO*L*2150, MET*S*2030, SOIL*S*2010.

Area of Concentration (General Program)

A minimum of 5.00 credits in Geography is required, including:

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<th>Course Code</th>
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<tr>
<td>GEOG*1200</td>
<td>[0.50] Society and Space</td>
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<td>GEOG*1220</td>
<td>[0.50] Human Impact on the Environment</td>
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<td>GEOG*1300</td>
<td>[0.50] Introduction to the Biophysical Environment</td>
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<td>GEOG*2000</td>
<td>[0.50] Geomorphology</td>
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<tr>
<td>GEOG*2110</td>
<td>[0.50] Climate and the Biophysical Environment</td>
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<td>[0.50] Environment and Resources</td>
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<tr>
<td>GEOG*2230</td>
<td>[0.50] Economic Geography</td>
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<tr>
<td>GEOG*2260</td>
<td>[0.50] Applied Human Geography</td>
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<td>GEOG*2460</td>
<td>[0.50] Analysis in Geography</td>
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<td>GEOG*2480</td>
<td>[0.50] Mapping and GIS</td>
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2.00 credits at the 3000 level or above

Major (Honours Program)

A minimum of 9.00 credits in Geography is required, including:

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<tr>
<td>GEOG*2230</td>
<td>[0.50] Economic Geography</td>
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3.00 additional credits in Geography at the 3000 level or above including at least 1.50 credits at the 4000 level.

Minor (Honours Program)

A minimum of 5.00 credits in Geography is required, including:

Two of:

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<td>GEOG*2480</td>
<td>[0.50] Mapping and GIS</td>
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</table>

2.50 credits in Geography at the 3000 or 4000 level, 0.50 of which must be at the 4000 level.

German (GERM)

School of Languages and Literatures, College of Arts

All language courses carry 0.50 credits. Students with two years of high school German or equivalent may not be admitted into GERM*1100. Students with 12U German credit or its equivalent may be admitted into GERM*1110 only with the approval of the department. All language students are advised to include LING*1000 among their electives in order to derive the maximum benefit from their studies. Except where stated otherwise, literary texts are, at all levels, studied in the original language. Students registering in these courses will be expected to have the appropriate knowledge.

Study Abroad

The School of Languages and Literatures encourages students in the German program to spend 1 or 2 semesters in a German speaking country to continue their studies at the University level. Credit for programs of study successfully completed may be applied towards the University of Guelph degree requirements. For more information, contact the Centre for International Programs or the School of Languages and Literatures.

Minor (Honours Program)

A minimum of 5.00 credits in German is required.

Upon passing both the German designation and its humanities co-requisites, students may also count HUMN*3020 and HUMN*3470 toward the German minor.

Students enrolled in the German program must contact the School of Languages and Literatures for an up-to-date sequence of course offerings.

Hispanic Studies (HISP)

School of Languages and Literatures, College of Arts

The Hispanic Studies program enables students to concentrate on the Spanish language and on Spanish and Latin American literature. Language courses provide study of the grammatical concepts required to establish and enrich reading, writing, oral and aural skills from basic through advanced levels of study. Through literature and film, students are introduced to a variety of cultural, historical, social, and political topics.

The usual first course in Spanish is HISP*1100. Students with 4U Spanish commonly take HISP*2000. They may be admitted into HISP*1110 only with the approval of the Instructor or the Faculty Advisor. Students with native or near native fluency normally begin language courses with HISP*2000. Such students should consult the Head of Hispanic Studies before beginning their studies, so that pre-requisite waiver forms are completed.

All language students are strongly advised to include CLAS*1000 and LING*1000, among their electives in order to derive the maximum benefit from their studies.

Study Abroad

The Hispanic Studies program encourages its students to take advantage of the University of Guelph's exchange programs and the semester abroad opportunities. Exchange programs with the University of Málaga and the University of La Rioja in Spain and with the Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM) in Mexico are very popular. Students also enjoy the semester abroad opportunity every second winter in Guatemala. It is recommended that students go on exchange in their third year. In order to be eligible for an exchange, students should have completed at least HISP*2010, HISP*2990 and HISP*2040 and HISP*3080. Credits successfully completed at the host university are applied towards University of Guelph degree requirements. Please see the International Study section of the undergraduate calendar and consult the Coordinator of Hispanic Studies for more information.
Area of Concentration (General Program)
A minimum of 5.00 credits in Hispanic Studies is required, including:
a. 2.50 credits from HISP*1110, HISP*2000, HISP*2010, HISP*3500, HISP*3530, HISP*4500, HISP*4520
b. HISP*2040, HISP*2990, HISP*3080
c. 0.50 credits in literature
d. additional 0.50 credits in Hispanic Studies.

Major (Honours Program)
A minimum of 8.00 credits in Hispanic Studies is required, including:
a. HISP*2000, HISP*2010, HISP*2040, HISP*2990, HISP*3080, HISP*3220, HISP*3230, HISP*3240, HISP*3500, HISP*3530, HISP*4410, HISP*4420, HISP*4500, HISP*4520

Minor (Honours Program)
A minimum of 5.00 credits in Hispanic Studies is required, including:
a. 2.50 credits from HISP*1110, HISP*2000, HISP*2010, HISP*3500, HISP*3530, HISP*4500, HISP*4520
b. HISP*2040, HISP*2990, HISP*3080
c. 1.00 credits in literature

Students wishing to substitute required courses with courses taken abroad, or other options, should consult the faculty advisor.

History (HIST)
Department of History, College of Arts
Courses marked (H) are designed as honours courses. Students in a general program wishing to take these must obtain the permission of instructors concerned. All other courses may be taken by both general and honours students. Students wishing to take a 3000 level course must have pass standing in at least 5.00 credits in university courses.

Students wishing to take a 4000 level course must have pass standing in at least 10.00 university credits. Access to all 4000 level history courses is restricted to students in the B.A. Honours program with at least a 70% average in all history course attempts. Students should note the prerequisite requirements of upper level courses in planning their individual programs.

Students entering semester 1 are advised to choose from 1000 level courses. Second semester students wishing to take an advanced level History course should select that course from the History core.

Core Requirements
a. HIST*1010, HIST*2100, HIST*2450, HIST*2600
b. 0.50 credits from each of a) Pre-Modern; b) Developing World; and c) Thematic.
Course lists available in the Department of History and at http://www.uoguelph.ca/history.

Area of Concentration (General Program)
A minimum of 5.00 credits in History is required, including:
a. at least 1.50 credits in History must be at the 3000 level (excluding HIST*3470)
b. students should take the History Core Requirements

Note: With the permission of the department, students may select as part of their program 0.50 credits outside the History Department such as ECON*2420, ECON*3730, EURO*4600, WMST*4010.

Major (Honours Program)
A minimum of 8.00 credits in History courses is required, including:
a. the History Core Requirements
b. 4.50 additional credits in History including 2.00 at the 4000 level.

Minor (Honours Program)
A minimum of 5.00 credits in History is required, including:
a. the History Core Requirements
b. 1.50 additional credits in History, including 1.00 at the 3000 or 4000 level.

Note: Honours students in History may, with the permission of the department, take up to 1.00 credits from outside the department such as ECON*2420, ECON*3730, EURO*4600, WMST*4010. Students considering graduate work are advised to take 2.00 - 3.00 additional upper level History credits perhaps including the Special History Project Seminar (HIST*4470, HIST*4970) and to acquire a reading knowledge of a foreign language. Honours students must complete HIST*2450 by the end of their third semester to be eligible for 3000 level History courses.

Individual Studies (IS)
Interdisciplinary Program
B.A. Counselling Office, Room 130, MacKinnon Building, Ext. 52140.

Honours B.A. students have the option of doing an Individual Studies Major. Students in the Individual Studies Major have the opportunity to determine the goals and methods of their studies. Areas of study can include courses in any of the colleges and where the University of Guelph has faculty expertise to assist students. Students are encouraged to develop an interdisciplinary perspective, and to explore the methods of inquiry which provide depth of knowledge in a specific subject.

A student submitting a proposal for the Individual Studies Major must submit the complete proposal to the B.A. Program Counsellor before the third week of classes of semester four. The B.A. Program Committee will consider proposals once, and will approve, approve with revisions, or deny the proposal. Proposals cannot be resubmitted.

Proposals will not be considered unless they articulate a detailed rationale for a coherent program of studies that is significantly different from any existing major and minor combination at the University of Guelph, and unless the proposal meets the following criteria:
a. minimum of 9.00 credits
b. minimum of 4.00 credits at the 3000 level and above, including at least 1.00 credits at the 4000 level
c. minimum of 1.00 credits in methods and/or theory
d. maximum of 1.50 credits at the 1000 level
e. a senior level Directed Readings or Special Project course must be completed. When appropriate, the Committee will identify a faculty member as the supervisor for a student’s course of study.

A student wishing to submit a proposed program of studies for the Individual Studies Major must prepare a proposal that will include the following:
a. a clear statement of theme or areas of study
b. a clear statement of the contribution of the major to a post-graduation field of work or study
c. a clearly set out rationale for inclusion of the specific courses and how they relate to or develop the theme or areas of study
d. a list of required “core” courses and “restricted electives” following the above criteria.
When proposing core and restricted elective credits, students should keep in mind the prerequisites for their desired 3000 and 4000 level courses

Note: Students undertaking the Individual Studies Major must fulfill the requirements of the B.A. Honours Program as set out in Section X. The B.A. Program Counsellor is the academic counsellor. The Individual Studies designation will appear on the student’s transcript upon graduation, but the title or subject of the major will not.

Information Systems and Human Behaviour (ISHB)
Interdisciplinary Program
As computers and communications play progressively more subtle and significant roles in society, this program of study brings together the elements of 3 disciplines to provide students with an understanding of technical, behavioral and social aspects of information technology. This program of study is a co-operative effort of the Department of Computing and Information Science, Department of Psychology, and Department of Sociology and Anthropology. Students in this program will be advised by the program coordinator in the Department of Computing and Information Science.

Major (Honours Program)
Computing and Information Science Courses
CIS*1500 [0.50] Introduction to Programming
CIS*1910 [0.50] Discrete Structures in Computing I
CIS*2430 [0.50] Object Oriented Programming
CIS*2500 [0.50] Intermediate Programming
CIS*2520 [0.50] Data Structures
CIS*2750 [0.75] Software Systems Development and Integration
CIS*2910 [0.50] Discrete Structures in Computing II
CIS*3530 [0.50] Data Base Systems and Concepts
CIS*3750 [0.75] System Analysis and Design in Applications
CIS*4300 [0.50] Human Computer Interaction

Psychology Courses
PSYC*1000 [0.50] Introduction to Psychology
PSYC*2360 [0.50] Introductory Research Methods
PSYC*2390 [0.50] Principles of Sensation and Perception
PSYC*2650 [0.50] Cognitive Psychology
PSYC*3080 [0.50] Organizational Psychology
0.50 additional Psychology credits at the 3000 level or above.

One of:
SOAN*2040 [0.50] Globalization of Work and Organizations
PSYC*2310 [0.50] Introduction to Social Psychology

One of:
PSYC*3330 [0.50] Memory
PSYC*3340 [0.50] Psycholinguistics

0.50 electives from a 4000 level Psychology course
Sociology and Anthropology Courses
ANTH*1150 [0.50] Introduction to Anthropology
SOC*1100 [0.50] Sociology
SOAN*3070 [0.50] Qualitative and Observational Methods
0.50 electives from a 4000 level course in ANTH, SOAN or SOC

Statistics Courses
STAT*2040 [0.50] Statistics I

International Development (ID)

Interdisciplinary Program
Faculty Advisor: Room 045 MacKinnon Building, ext 56175.
The International Development program provides students with an opportunity to pursue interdisciplinary and comparative studies of long-term change and international inequality. A broad coverage of the process of international development, from the perspectives of history and social science, forms the basis for more in-depth study on such topics as economic growth, the biophysical environment, gender, agriculture and rural life, politics and administration, and the Latin American region.
The primary participating departments are Economics, Geography, Political Science, and Sociology and Anthropology.

Area of Concentration (General Program)
A minimum of 5.25 credits is required, including:
ANTH*1150 [0.50] Introduction to Anthropology
ECON*1050 [0.50] Introductory Microeconomics
ECON*1100 [0.50] Introductory Macroeconomics
IDEV*2500 [0.75] International Development Studies
POLS*2080 [0.50] Development and Underdevelopment
Five of:
ECON*2650 [0.50] Introductory Development Economics
ECON*3720 [0.50] History of the World Economy Since 1850
ECON*3730 [0.50] Europe and the World Economy to 1914
GEOG*2030 [0.50] Environment and Development
GEOG*3050 [0.50] Development and the City
POLS*3670 [0.50] Comparative Public Policy and Administration
POLS*3790 [0.50] The Political Economy of International Relations
SOAN*3680 [0.50] Perspectives on Development

Major (Honours Program)
A minimum of 12.50 credits is required, including the core of 7.50 credits and one of seven areas of emphasis for 5.00 credits. The areas are: Economic and Business Development, Gender and Development, Rural and Agricultural Development, Environment and Development, Latin American Studies, Political Economy and Administrative Change, and Historical Perspectives in Development. Students must select an area of emphasis by the end of the 4th semester of university study.
International Development students are encouraged to acquire at least one foreign language and to work or study abroad.
With the permission of the International Development Studies faculty advisor, students may replace 0.50 credits from their area of emphasis with IDEV*3200, or 1.00 credits from their area of emphasis with IDEV*4190 and IDEV*4200.

Note: When selecting courses, students should keep in mind the prerequisites for their desired 3000 and 4000 level courses.

Core Requirements
ANTH*1150 [0.50] Introduction to Anthropology
ECON*1050 [0.50] Introductory Microeconomics
ECON*1100 [0.50] Introductory Macroeconomics
ECON*2650 [0.50] Introductory Development Economics
GEOG*2030 [0.50] Environment and Development
GEOG*3050 [0.50] Development and the City
IDEV*2500 [0.75] International Development Studies
IDEV*4500 [0.75] International Development Seminar
POLS*2080 [0.50] Development and Underdevelopment
One of:
IDEV*3010 [0.50] Case Studies in International Development
0.50 credits from relevant semester abroad, exchange program or experience abroad for credit, as approved by International Development advisor

One of:
HIST*2930 [0.50] Women and Cultural Change
SOAN*2400 [0.50] Introduction to Gender Systems
WMST*1000 [0.50] Introduction to Women's Studies
WMST*2000 [0.50] Women and Representation
One of:
EDRD*3720 [0.50] History of the World Economy Since 1850
ECON*3730 [0.50] Europe and the World Economy to 1914
One of:
EDRD*4020 [0.50] Rural Extension in Change and Development
FARE*1300 [0.50] Poverty, Food & Hunger

EINF*3250 [0.50] Food, Nutrition & International Development
SOC*2080 [0.50] Rural Sociology
One of:
POLS*3320 [0.50] Politics of Aid & Development
POLS*3670 [0.50] Comparative Public Policy and Administration
POLS*3790 [0.50] The Political Economy of International Relations

* students must complete IDEV*2500 before Semester 5
** students normally complete IDEV*4500 in their final year of study
*** Students should check http://www.ids.uoguelph.ca for more information and are encouraged to discuss their plans with the advisor well in advance.

Areas of Emphasis
Environment and Development
GEOG*1220 [0.50] Human Impact on the Environment
GEOG*1300 [0.50] Introduction to the Biophysical Environment
GEOG*2210 [0.50] Environment and Resources
GEOG*3210 [0.50] Management of the Biophysical Environment
One of:
ECON*2100 [0.50] Economic Growth and Environmental Quality
FARE*2700 [0.50] Survey of Natural Resource Economics
HIST*2250 [0.50] Environment and History
PHIL*2070 [0.50] Philosophy of the Environment
POLS*3370 [0.50] Environmental Politics and Governance
SOC*2280 [0.50] Society and Environment
SOC*3380 [0.50] Society and Nature

Choose Option A or B
Option A - Biophysical Environment
GEOG*2460 [0.50] Analysis in Geography
Two of:
GEOG*2110 [0.50] Climate and the Biophysical Environment
GEOG*2480 [0.50] Mapping and GIS
GEOG*3020 [0.50] Global Environmental Change
GEOG*3110 [0.50] Biotic and Natural Resources
GEOG*3610 [0.50] Environmental Hydrology

Two of:
GEOG*3480 [0.50] GIS and Spatial Analysis
GEOG*4110 [1.00] Environmental Systems Analysis
GEOG*4210 [0.50] Environmental Governance
GEOG*4220 [0.50] Local Environmental Management
GEOG*4230 [0.50] Environmental Impact Assessment
GEOG*4250 [0.50] Coastal Processes
GEOG*4480 [1.00] Applied Geographic Information Systems

Option B - Human Environment
GEOG*2260 [0.50] Applied Human Geography
Two of:
GEOG*2480 [0.50] Mapping and GIS
GEOG*3020 [0.50] Global Environmental Change
GEOG*3090 [0.50] Gender and Environment
GEOG*3320 [0.50] Food Systems: Issues in Security and Sustainability
GEOG*3490 [0.50] Tourism and Environment
GEOG*3600 [0.50] Geography of a Selected Region

Two of:
GEOG*3480 [0.50] GIS and Spatial Analysis
GEOG*4200 [0.50] Seminar in Urban Geography
GEOG*4210 [0.50] Environmental Governance
GEOG*4220 [0.50] Local Environmental Management
GEOG*4230 [0.50] Environmental Impact Assessment
GEOG*4390 [0.50] Seminar in Rural Geography
GEOG*4480 [1.00] Applied Geographic Information Systems

Economic and Business Development
ACCT*2220 [0.50] Financial Accounting
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*2740 [0.50] Economic Statistics

Two of:
ECON*4720 [0.50] Topics in Economic History
ECON*4830 [0.50] Economic Development
ECON*4880 [0.50] Topics in International Economics
ECON*4890 [0.50] History of Economic Thought
ECON*4900 [0.50] Special Study in Economics
ECON*4930 [0.50] Environmental Economics
FARE*4290 [0.50] Land Economics
FARE*4310 [0.50] Resource Economics

1.50 additional credits at the 2000 level or above in ECON or FARE, at least 0.50 being in ECON and at least 1.00 being at the 3000 level or above.
0.50 additional credits with a regional focus at the 2000 level or above in ANTH, GEOG, HIST, IDEV, ISS, POLS, SOAN or SOC.

Last Revision: Oct. 19, 2012
* Entry into ECON*2310, ECON*2410 and ECON*2740 requires a 1000-level MATH course.

### Gender and Development

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH*2160</td>
<td>0.50</td>
<td>Social Anthropology</td>
</tr>
<tr>
<td>SOAN*2120</td>
<td>0.50</td>
<td>Introductory Methods</td>
</tr>
<tr>
<td>SOAN*3240</td>
<td>0.50</td>
<td>Gender &amp; Global Inequality I</td>
</tr>
<tr>
<td>SOAN*4230</td>
<td>0.50</td>
<td>Gender &amp; Global Inequality II</td>
</tr>
</tbody>
</table>

One of the following not taken as part of the core:

- ANTH*2230 [0.50] Regional Ethnography
- SOC*2080 [0.50] Rural Sociology

One of:

- SOAN*3070 [0.50] Qualitative and Observational Methods
- SOAN*3120 [0.50] Quantitative Methods

One of:

- ANTH*3400 [0.50] The Anthropology of Gender
- ANTH*3670 [0.50] Indigenous Peoples: Global Context
- ANTH*3690 [0.50] History of Anthropological Thought
- ANTH*3770 [0.50] Kinship and Social Organization
- SOAN*3100 [0.50] Gender Perspectives on Families and Households

Two of the following not taken as part of the core, at least 0.50 credits being at the 3000 level:

- ENGL*2880 [0.50] Women in Literature
- GEOG*3090 [0.50] Gender and Environment
- HIST*2800 [0.50] The History of the Modern Family
- HIST*2930 [0.50] Women and Cultural Change
- HIST*3020 [0.50] Sexuality and Gender in History
- HIST*3580 [0.50] Women's History in Asia
- PHIL*2060 [0.50] Philosophy of Feminism I
- POLS*2150 [0.50] Gender and Politics
- POLS*3160 [0.50] Women and Politics in the Third World
- POLS*3710 [0.50] Politics and Sexuality
- WMST*2000 [0.50] Women and Representation
- WMST*3000 [0.50] Feminist Theory and Methods
- WMST*3010 [0.50] Gender and Diversity

### Historical Perspectives in Development

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST*1010</td>
<td>0.50</td>
<td>The Early Modern World</td>
</tr>
<tr>
<td>HIST*2450</td>
<td>0.50</td>
<td>The Practising Historian</td>
</tr>
</tbody>
</table>

Two of:

- HIST*1150 [0.50] The Modern World
- HIST*2070 [0.50] World Religions in Historical Perspective
- HIST*2250 [0.50] Environment and History
- HIST*2340 [0.50] Migrations in the Atlantic World, 1500-1850
- HIST*2500 [0.50] Britain Since 1603
- HIST*2800 [0.50] The History of the Modern Family
- HIST*2890 [0.50] Early Islamic World
- HIST*2910 [0.50] Modern Asia
- HIST*2920 [0.50] Republican Latin America

Three of the following not taken as part of the core:

- ECON*2420 [0.50] Canadian Economic History
- ECON*3720 [0.50] History of the World Economy Since 1850
- ECON*3730 [0.50] Europe and the World Economy to 1914
- HIST*3070 [0.50] Modern India
- HIST*3150 [0.50] History and Culture of Mexico
- HIST*3270 [0.50] Revolution in the Modern World
- HIST*3310 [0.50] Disease and History
- HIST*3380 [0.50] British Imperialism in Asia and Africa
- HIST*3410 [0.50] Pre-Colonial Africa
- HIST*3420 [0.50] Colonial Latin America
- HIST*3430 [0.50] Topics in Environment and Society
- HIST*3470 [0.50] Independent Reading
- HIST*3580 [0.50] Women's History in Asia
- HIST*3590 [0.50] Ancient & Medieval India
- HIST*3830 [0.50] Modern Middle East
- HIST*3840 [0.50] Ottoman Empire, 1300-1923
- HIST*3910 [0.50] Africa Since 1800

1.00 additional credits at the 4000 level in ANTH, SOAN, SOC or WMST

### Latin American Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISP*2000</td>
<td>0.50</td>
<td>Intermediate Spanish I</td>
</tr>
<tr>
<td>HISP*2010</td>
<td>0.50</td>
<td>Intermediate Spanish II</td>
</tr>
<tr>
<td>HISP*3500</td>
<td>0.50</td>
<td>Advanced Spanish I</td>
</tr>
</tbody>
</table>

One of:

- POLS*3180 [0.50] Research Methods I: Political Inquiry and Methods
- SOAN*2120 [0.50] Introductory Methods

Three of:

- HISP*2990 [0.50] Hispanic Literary Studies
- HISP*3080 [0.50] Spanish American Culture
- HIST*2920 [0.50] Republican Latin America
- HIST*3150 [0.50] History and Culture of Mexico
- HIST*3420 [0.50] Colonial Latin America
- HUMN*3300 [0.50] Latin American Studies in the Humanities
- ISS*3300 [0.50] Latin American Studies in the Social Sciences
- POLS*3080 [0.50] Politics of Latin America
- SOAN*3250 [0.50] Social Change in Latin America

0.50 additional credits in HISP at the 3000 level!

1.00 additional credits at the 4000 level in HISP or in ANTH, HIST, IDEV, POLS, SOAN, SOC with a focus on Latin America or the Caribbean. Please consult with the International Development advisor for a list of appropriate courses.

*Note: HISP*2990 or permission of the instructor is required for 3rd-year Hispanic Studies literature courses.

### Political Economy and Administrative Change

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS*3180</td>
<td>0.50</td>
<td>Research Methods I: Political Inquiry and Methods</td>
</tr>
</tbody>
</table>

Two of:

- POLS*2000 [0.50] Political Theory
- POLS*2100 [0.50] Comparative Politics
- POLS*2200 [0.50] International Relations

Two of the following not taken as part of the core:

- ECON*2100 [0.50] Economic Growth and Environmental Quality
- ECON*2310 [0.50] Intermediate Microeconomics
- ECON*2720 [0.50] Business History
- ECON*3720 [0.50] History of the World Economy Since 1850
- ECON*3730 [0.50] Europe and the World Economy to 1914
- ECON*4720 [0.50] Topics in Economic History
- ECON*4830 [0.50] Economic Development
- ECON*4890 [0.50] History of Economic Thought
- FARE*2700 [0.50] Survey of Natural Resource Economics
- FARE*3170 [0.50] Cost-Benefit Analysis
- FARE*3250 [0.50] Food, Nutrition & International Development
- FARE*4210 [0.50] World Agriculture and Economic Development
- FARE*4290 [0.50] Land Economics
- FARE*4310 [0.50] Resource Economics

1.00 additional credits in POLS at the 3000-level, not taken as part of the core.

1.00 additional credits in POLS at the 4000 level

0.50 additional credits with a regional focus at the 2000 or 3000 level in HIST or POLS. The faculty advisor for International Development maintains a list of appropriate courses.

### Rural and Agricultural Development

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*2150</td>
<td>0.50</td>
<td>Plant Agriculture for International Development</td>
</tr>
<tr>
<td>SOAN*2120</td>
<td>0.50</td>
<td>Introductory Methods</td>
</tr>
</tbody>
</table>

One of the following not taken as part of the core:

- ANTH*2160 [0.50] Social Anthropology
- FARE*1300 [0.50] Poverty, Food & Hunger
- FARE*2700 [0.50] Survey of Natural Resource Economics
- SOC*2080 [0.50] Rural Sociology

One of:

- FARE*3170 [0.50] Cost-Benefit Analysis
- SOAN*3070 [0.50] Qualitative and Observational Methods
- SOAN*3120 [0.50] Quantitative Methods

Two of the following not taken as part of the core:

- ANTH*3670 [0.50] Indigenous Peoples: Global Context
- ANTH*3690 [0.50] History of Anthropological Thought
- FARE*3250 [0.50] Food, Nutrition & International Development
- SOAN*3240 [0.50] Gender & Global Inequality I
- SOAN*3250 [0.50] Social Change in Latin America
- SOAN*3680 [0.50] Perspectives on Development
- SOC*3380 [0.50] Society and Nature

Any EDRD courses at the 3000 level or above.

1.00 additional credits in AGR, BIOL, BOT, CROP, ENVS, HORT, NRS or OAGR, at least 0.50 being at the 3000-level or above. See [http://www.ids.uoguelph.ca](http://www.ids.uoguelph.ca) for a list of appropriate courses.

1.00 additional credits in ANTH, FARE, SOAN or SOC at the 4000 level.

### Minor (Honours Program)

A minimum of 5.25 credits is required, including:

- ANTH*1150 [0.50] Introduction to Anthropology
- ECON*1050 [0.50] Introductory Microeconomics
- ECON*1100 [0.50] Introductory Macroeconomics
- IDEV*2500 [0.75] International Development Studies
- POLS*2080 [0.50] Development and Underdevelopment

Five of:

- ECON*2650 [0.50] Introduction to Development Economics
- ECON*3720 [0.50] History of the World Economy Since 1850
ECON*3730 [0.50] Europe and the World Economy to 1914
GEOG*2030 [0.50] Environment and Development
GEOG*3050 [0.50] Development and the City
POLS*3670 [0.50] Comparative Public Policy and Administration
POLS*3790 [0.50] The Political Economy of International Relations
SOAN*3680 [0.50] Perspectives on Development

Italian (ITAL)

School of Languages and Literatures, College of Arts

All language courses carry 0.50 credits. Students with Year 4 or grade 12 Italian or their equivalent may be admitted into ITAL*1060 or ITAL*1070 only with the approval of the department. Students advancing in a Romance language (French, Spanish, Italian) are advised to take elective courses in a second Romance language and in Latin. All language students are strongly advised to include CLAS*1000 and LING*1000 among their electives in order to derive the maximum benefit from their studies. Except where stated otherwise, literary texts are, at all levels, studied in the original language. Students registering in these courses will be expected to have the appropriate knowledge.

Study Abroad

The School of Languages and Literatures encourages students in modern languages to spend 1 or 2 semesters in another country to study a particular language at the university level. Credit for programs of study successfully completed may be applied towards the University of Guelph degree requirements. Requests should be addressed well in advance to either the School or a particular section of the School. A letter of permission is required (see Section VIII—Undergraduate Degree Regulations and Procedures.).

Italian may be taken as a minor in the honours program. Students in Italian will be counselled by the School of Languages and Literatures.

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

a. ITAL*2090, ITAL*3060
b. two of the following courses ITAL*2100, ITAL*3150, ITAL*3200, ITAL*3950, ITAL*3960, ITAL*3970
c. 1.50 additional credits from List A
d. 1.00 credits from List B

List A
ITAL*1060 [0.50] Introductory Italian I
ITAL*1070 [0.50] Introductory Italian II
ITAL*2100 [0.50] Renaissance Lovers and Fools
ITAL*3150 [0.50] Medieval Italian Literature
ITAL*3200 [0.50] Novels of Resistance
ITAL*3950 [0.50] Topics in Italian Literature
ITAL*3960 [0.50] Topics in Italian Literature
ITAL*3970 [0.50] Topics in Italian Literature
ITAL*4900 [0.50] Research Paper in Italian Studies

List B
ARTH*2540 [0.50] Medieval Art
ARTH*2550 [0.50] The Italian Renaissance
ARTH*2950 [0.50] Baroque Art
ARTH*3100 [0.50] Perspectives: Structure & Space in Western Art
ARTH*3150 [0.50] Space: Roman Art and Urbanism
ARTH*3310 [0.50] Image: Pictures & Their Power
ARTH*3320 [0.50] Lives: Aspects of Western Art
ARTH*3340 [0.50] The Art Object & Material Culture
CLAS*1000 [0.50] Introduction to Classical Culture
CLAS*2000 [0.50] Classical Mythology
HIST*2200 [0.50] The Medieval World
HIST*2850 [0.50] Ancient Greece and Rome
HIST*3750 [0.50] The Reformation
LAT*1100 [0.50] Preliminary Latin I
LAT*1110 [0.50] Preliminary Latin II
LAT*2000 [0.50] Latin Literature
LING*1000 [0.50] Introduction to Linguistics
PHIL*2140 [0.50] History of Greek and Roman Philosophy
PHIL*3060 [0.50] Medieval Philosophy

Marketing Management (MKMN)

Department of Marketing and Consumer Studies, College of Management and Economics

A Marketing Management minor is designed for students who wish to pursue interdisciplinary studies that consider consumers and the marketplace, consumers and their decision processes and behaviours, markets and their structure and various interactive relationships, and issues concerning market management.

Students who wish to declare the Marketing Management Minor specialization must apply directly to the Department. In order to be eligible, applicants must have a cumulative average of 70% or better in all course attempts towards the minor.

Minor (Honours Program)

A minimum of 5.00 credits is required, including:

ACCT*2220 [0.50] Financial Accounting
BUS*2090 [0.50] Individuals and Groups in Organizations
ECON*1050 [0.50] Introductory Microeconomics
ECON*1100 [0.50] Introductory Macroeconomics
MCS*1000 [0.50] Introductory Marketing
MCS*2600 [0.50] Fundamentals of Consumer Behaviour

2.00 restricted electives from the list of Restricted Electives, 1.00 of which must be at the 3000 level

Restricted Electives

MCS*2020 [0.50] Marketing Information Management
MCS*3000 [0.50] Advanced Marketing
MCS*3030 [0.50] Research Methods
MCS*3040 [0.50] Business and Consumer Law
MCS*3500 [0.50] Market Analysis and Planning
MCS*3600 [0.50] Consumer Information Processes
MCS*3620 [0.50] Marketing Communications

One of:
ECON*2740 [0.50] Economic Statistics
STAT*2060 [0.50] Statistics for Business Decisions

Mathematical Economics (MAEC)

Department of Economics and Finance, College of Management and Economics

Most economic theory rests on explicit, formal, mathematical and/or statistical foundations. This specialization articulates and emphasizes these interactions. It is most suitable for students who either have, or wish to develop, a strong analytical background.

Major (Honours Program)

Semester 1
CIS*1500 [0.50] Introduction to Programming
ECON*1050 [0.50] Introductory Microeconomics
MATH*1200 [0.50] Calculus I

1.00 electives

Semester 2
ECON*1100 [0.50] Introductory Macroeconomics
MATH*1210 [0.50] Calculus II

1.50 electives

Semester 3
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2410 [0.50] Intermediate Macroeconomics
STAT*2040 [0.50] Statistics I

1.00 electives

Semester 4
ECON*3740 [0.50] Introduction to Econometrics

2.00 electives or restricted electives*

Semester 5
ECON*3710 [0.50] Advanced Microeconomics

2.00 electives or restricted electives*

Semester 6
ECON*3100 [0.50] Game Theory
ECON*3810 [0.50] Advanced Macroeconomics

1.50 electives or restricted electives*

Semester 7
ECON*4640 [0.50] Applied Econometrics I
ECON*4710 [0.50] Advanced Topics in Microeconomics
ECON*4700 [0.50] Advanced Mathematical Economics

1.00 electives or restricted electives*

Semester 8
ECON*4810 [0.50] Advanced Topics in Macroeconomics

One of:
ECON*4840 [0.50] Advanced Topics in Macroeconomics
MATH*3200 [0.50] Real Analysis
STAT*4340 [0.50] Statistical Inference
STAT*4350 [0.50] Applied Multivariate Statistical Methods
STAT*4360 [0.50] Applied Time Series Analysis

0.50 credits in Economics at the 4000 level

1.00 electives

Note: Courses from MATH or STATS will be allowed with the appropriate prerequisites, or by permission of the instructor.
Mathematical Economics (Co-op) (MAEC:C)

Department of Economics and Finance, College of Management and Economics

Most economic theory rests on explicit, formal, mathematical and/or statistical foundations. This specialization articulates and emphasizes these interactions. It is most suitable for students who either have, or wish to develop, a strong analytical background.

Major (Honours Program)

Semester 1 - Fall

CIS*1500 [0.50] Introduction to Programming
ECON*1050 [0.50] Introductory Microeconomics
MATH*1200 [0.50] Calculus I
1.00 electives

Semester 2 - Winter

ECON*1100 [0.50] Introductory Macroeconomics
MATH*1210 [0.50] Calculus II
1.50 electives

Semester 3 - Fall

COOP*1100 [0.00] Introduction to Co-operative Education
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2410 [0.50] Intermediate Macroeconomics
STAT*2040 [0.50] Statistics I
1.00 electives

Semester 4 - Winter

ECON*3740 [0.50] Introduction to Econometrics
2.00 electives or restricted electives*

Spring/Summer

COOP*1000 [0.00] Co-op Work Term I
Fall

COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter

ECON*3100 [0.50] Game Theory
ECON*3810 [0.50] Advanced Macroeconomics
1.50 electives or restricted electives*

Spring/Summer

COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall

ECON*3710 [0.50] Advanced Microeconomics
2.00 electives or restricted electives*

Winter

COOP*4000 [0.00] Co-op Work Term IV

Spring/Summer

COOP*5000 [0.00] Co-op Work Term V

Semester 7 - Fall

ECON*4640 [0.50] Applied Econometrics I
ECON*4700 [0.50] Advanced Mathematical Economics
ECON*4710 [0.50] Advanced Topics in Microeconomics
1.00 electives or restricted electives*

Semester 8 - Winter

ECON*4810 [0.50] Advanced Topics in Macroeconomics
One of:
ECON*4840 [0.50] Applied Econometrics II
MATH*3200 [0.50] Real Analysis
STAT*4080 [0.50] Data Analysis
STAT*4340 [0.50] Statistical Inference
STAT*4350 [0.50] Applied Multivariate Statistical Methods
STAT*4360 [0.50] Applied Time Series Analysis
0.50 credits at the 4000 level Economics
1.00 electives

*at least 1.00 credits of the 4.00 restricted electives credits must be from Mathematics and 1.00 credits must be from Statistics. The remaining 2.00 credits can be from either subject area. Of the 4.00 credits, at least 1.00 credits must be at the 3000 level or above and the remaining 3.00 credits must be at the 2000 level or above.

Note: Courses from MATH or STATS will be allowed with the appropriate prerequisites, or by permission of the instructor.

Mathematics (MATH)

Department of Mathematics and Statistics, College of Physical and Engineering Science

Mathematics and Statistics have become crucial components in the understanding and exploration of more and more disciplines. Persons with a strong background in mathematical sciences have access to a broad range of rewarding opportunities. Within the B.A. program, the Department of Mathematics and Statistics offers areas of concentration, majors and minors, both in Mathematics and Statistics. The Mathematics programs are designed to provide considerable flexibility for students to pursue their own interests, whether they be in the concepts of “pure” mathematics or techniques and applications. As a result, these programs open up opportunities for careers in many sectors such as business, education, government, industry, or medicine.

Area of Concentration (General Program)

A minimum of 5.00 Mathematics credits is required, including:

a. 4.00 credits in Mathematics, including at least 1.00 from courses at the 3000 level or above

b. 1.00 additional credits from Mathematics, Statistics and/or Computing Science

Honours Programs

Students without MHF4U Advanced Functions and/or MCV4U Calculus and Vectors should consult with the department advisor.

Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. Of the minimum of 20.00 credits required to complete an Honours BA degree, at least the following 9.50 credits must be completed for the Mathematics Major:

CIS*1500 [0.50] Introduction to Programming
MATH*1200 [0.50] Calculus I
MATH*1210 [0.50] Calculus II
MATH*2000 [0.50] Set Theory
MATH*2130 [0.50] Numerical Methods
MATH*2160 [0.50] Linear Algebra I
MATH*2170 [0.50] Differential Equations I
MATH*2200 [0.50] Advanced Calculus I
MATH*2210 [0.50] Advanced Calculus II
MATH*3100 [0.50] Differential Equations II
MATH*3130 [0.50] Abstract Algebra
MATH*3160 [0.50] Linear Algebra II
MATH*3200 [0.50] Real Analysis
MATH*3260 [0.50] Complex Analysis
STAT*2040 [0.50] Statistics I
0.50 additional credits in MATH or STAT at the 3000 level or above.
1.50 additional credits in MATH at the 4000 level (0.50 of which may include STAT*4340).

Recommended Schedule of Studies for Major (Honours Program)

Semester 1

CIS*1500 [0.50] Introduction to Programming
MATH*1200 [0.50] Calculus I
1.50 credits selected from the College of Arts and the College of Social and Applied Human Sciences*

Semester 2

MATH*1210 [0.50] Calculus II
0.50 credits selected from the College of Arts and the College of Social and Applied Human Sciences*
1.50 electives** (PHIL*2110 and CIS*2500 are recommended in Semester 2 or Semester 4).

Semester 3

MATH*2000 [0.50] Set Theory
MATH*2160 [0.50] Linear Algebra I
MATH*2200 [0.50] Advanced Calculus I
STAT*2040 [0.50] Statistics I
0.50 electives

Semester 4

MATH*2130 [0.50] Numerical Methods
MATH*2170 [0.50] Differential Equations I
MATH*2210 [0.50] Advanced Calculus II
One of:
MATH*3160 [0.50] Linear Algebra II
0.50 electives

Semester 5

MATH*3100 [0.50] Differential Equations II
MATH*3200 [0.50] Real Analysis
MATH*3130 [0.50] Abstract Algebra
1.00 electives***

Note: Students are encouraged to take STAT*3100 or STAT*3240. Students who wish to take STAT*4340 in Semester 8 should take STAT*3100 in Semester 5, STAT*3110 in Semester 6 and STAT*3240 in Semester 7.
Applied Composition

Private instruction is offered in music composition. In order to register in Applied Composition (MUSC*2410), students must submit a portfolio of compositions (scores and recordings) to the School of Fine Art and Music at the time of course selection. Interviews are held prior to the first day of classes each semester (see School of Fine Art and Music for interview schedule). In order to enrol in Applied Composition, students must be registered in a Music program: Area of Concentration (General Program), Major or Minor (Honours Program). Applied Composition courses are designed to be taken during successive Fall and Winter terms. If this sequence is interrupted for more than one semester, students may be required to reapply before registering to continue in Applied Composition. Students must achieve a minimum grade of 70% in Applied Composition courses in order to proceed to the next level.

Core Requirements

The Music core is designed to provide the concepts and skills students need for successful study in higher level courses. All students in honours program major must complete the following courses:

- MUSC*1060 [0.50] “Classical” Music: Context and Codes
- MUSC*1180 [0.50] Musicianship I
- MUSC*2100 [0.50] Creating Music on the Computer
- MUSC*2140 [0.50] History of Jazz
- MUSC*2150 [0.50] Music and Popular Culture
- MUSC*2180 [0.50] Musicianship II
- MUSC*2270 [0.50] World Music
- MUSC*2330 [0.50] Genre and Style in Western Art Music
- MUSC*2660 [0.50] Materials of Music I
- MUSC*2670 [0.50] Materials of Music II
- MUSC*3630 [0.50] 20th Century Music

Note: MUSC*1130 does not count toward either the Major (Honours), Minor (Honours), or Area of Concentration (General Program).

Area of Concentration (General Program)

A minimum of 6.00 Music credits is required, including:

- a. MUSC*1060, MUSC*1180, MUSC*2140, MUSC*2330, MUSC*2660, MUSC*2670 (3.00 credits)
- b. 1.50 credits from MUSC*2100, MUSC*2140, MUSC*2150, MUSC*2270, MUSC*3630
- c. at least 1.00 Music credits at the 3000 level or above (excluding MUSC*3630)
- d. two of MUSC*2530, MUSC*2540, MUSC*2550, MUSC*2560.

Major (Honours Program)

A minimum of 9.00 Music credits is required, including:

- a. the Music core (5.50 credits)
- b. two of MUSC*2530, MUSC*2540, MUSC*2550, MUSC*2560.
- c. MUSC*44012 or MUSC*4450
- d. 2.00 additional credits of upper-level topics courses (MUSC*3730, MUSC*3740, MUSC*3800, MUSC*3820, MUSC*3860, MUSC*3880)

Participation in Applied Music courses is strongly recommended for all honours students. Students contemplating graduate studies in Music should consult music faculty early in their program.

Minor (Honours Program)

A minimum of 5.00 Music credits is required, including MUSC*1180 and at least 2.00 Music credits at the 3000 or 4000 level. Students should be aware that courses at the 3000 or 4000 level may require additional prerequisites.

Honours students considering graduate work in ethnomusicology, performance, theory, and other music specializations should consult a faculty advisor early in their program. Students should take courses covering a broad range of historical periods and methodologies, and also consider courses in Humanities (HUMN), dramatic theory, art history, anthropology, and English literature. A reading knowledge of at least one language other than English is also recommended.

Philosophy (PHIL)

Department of Philosophy, College of Arts

The Department of Philosophy offers programs emphasizing the history of philosophy and the study of metaphysics, epistemology, ethics and logic. The requirements for the various Philosophy programs are designed to ensure a basic competence in the discipline while permitting varying degrees of flexibility. It is important that students discuss their programs with a departmental advisor in order to ensure that the best selection of elective Philosophy courses is made. This is especially important for students who are contemplating graduate work in Philosophy.

Students may take PHIL*1000, PHIL*1010 and PHIL*1050 but only one may be counted towards the minimum number of Philosophy courses required for a degree.

Area of Concentration (General Program)

A minimum of 5.00 credits in Philosophy is required, including:
A minimum of 5.00 credits in Political Science is required, including:

- PHIL*2110, PHIL*2120, PHIL*2140, PHIL*2160, PHIL*2170
- PHIL*3060, PHIL*3080, PHIL*3130, PHIL*3200, PHIL*3280
- PHIL*2110, PHIL*2130, PHIL*2180, PHIL*2250, PHIL*3180, PHIL*3190, PHIL*3240, PHIL*3250, PHIL*3320, PHIL*3420, PHIL*3450, PHIL*3910, PHIL*3920, PHIL*3930, PHIL*4360, PHIL*4370, PSYC*3280
- PHIL*2030, PHIL*2060, PHIL*2070, PHIL*2120, PHIL*2600, PHIL*3040, PHIL*3050, PHIL*3230, PHIL*4040, PHIL*4060, PHIL*4310, PHIL*4340
- d. 3.50 additional credits in Philosophy

Note: Students must have at least 1.50 Philosophy credits at the 3000 or 4000 level.

The Department of Philosophy also offers a Minor in Ethics in the Life Sciences (Honours Program)

This program draws together critical and foundational analysis of the sciences (scientific method and concepts) with the philosophical disciplines of pure and applied ethics.

For more information, please see the program listing for Ethics in the Life Sciences (ELS).

**Major (Honours Program)**

A minimum of 8.50 credits is required, including:

- a. PHIL*2110, PHIL*2120, PHIL*2140, PHIL*2160, PHIL*3080
- b. 2 of PHIL*2170, PHIL*2180, PHIL*2250, PHIL*3180, PHIL*3190, PHIL*3240, PHIL*3250, PHIL*3450, PHIL*3460, PHIL*4370, PSYC*3280
- c. 2 of PHIL*2060, PHIL*3050, PHIL*3230, PHIL*4310, PHIL*4340
- d. 2 of PHIL*2030, PHIL*2070, PHIL*2130, PHIL*2600, PHIL*3130, PHIL*3200, PHIL*3280, PHIL*3420, PHIL*3910, PHIL*3920, PHIL*3930, PHIL*4040, PHIL*4060
- e. 3.00 additional credits in Philosophy

Note: Students must have at least 3.50 credits in Philosophy at the 3000 level or above, and at least 1.50 of these at the 4000 level.

Students planning to do graduate studies in philosophy should take PHIL*2110, PHIL*2120, PHIL*2140, PHIL*3080, PHIL*3130, PHIL*3200, (PHIL*4500 and/or PHIL*4550), PHIL*4800.

**Minor (Honours Program)**

A minimum of 5.00 credits in Philosophy is required, including:

- a. 1 of PHIL*2140, PHIL*2160, PHIL*2170, PHIL*3060, PHIL*3080
- b. 1 of PHIL*2110, PHIL*2180, PHIL*2250, PHIL*3180, PHIL*3190, PHIL*3240, PHIL*3250, PHIL*3450, PHIL*3460, PHIL*3470, PSYC*3280
- c. 1 of PHIL*2060, PHIL*2120, PHIL*3050, PHIL*3230, PHIL*4310, PHIL*4340
- d. 1 of PHIL*2030, PHIL*2070, PHIL*2130, PHIL*2600, PHIL*3130, PHIL*3200, PHIL*3280, PHIL*3420, PHIL*3910, PHIL*3920, PHIL*3930, PHIL*4040, PHIL*4060
- e. 3.00 additional credits in Philosophy

Note: Students must have at least 2.00 credits in Philosophy at the 3000 level or above.

The Department of Philosophy also offers a Minor in Ethics in the Life Sciences (Honours Program).

This program draws together critical and foundational analysis of the sciences (scientific method and concepts) with the philosophical disciplines of pure and applied ethics.

For more information, please see the program listing for Ethics in the Life Sciences (ELS).

**Political Thought**

- POLS*3230 [0.50] Modern Political Thought
- POLS*3710 [0.50] Politics and Sexuality

**Canadian Politics**

- POLS*3050 [0.50] Canadian Political Parties, Elections and Pressure Groups
- POLS*3210 [0.50] The Constitution and Canadian Federalism
- POLS*3270 [0.50] Local Government in Ontario
- POLS*3470 [0.50] Business-Government Relations in Canada

**Public Policy, Governance and Law**

- POLS*3130 [0.50] Law, Politics and Judicial Process
- POLS*3210 [0.50] The Constitution and Canadian Federalism
- POLS*3250 [0.50] Public Policy: Challenges and Prospects
- POLS*3300 [0.50] Governing Criminal Justice
- POLS*3370 [0.50] Environmental Politics and Governance
- POLS*3440 [0.50] Corruption, Scandal and Political Ethics
- POLS*3470 [0.50] Business-Government Relations in Canada
- POLS*3567 [0.50] Comparative Public Policy and Administration
- POLS*3940 [0.50] Accountability and Canadian Government

**Comparative Politics**

- POLS*3000 [0.50] Politics of Africa
- POLS*3060 [0.50] Politics of the Middle East and North Africa
- POLS*3080 [0.50] Politics of Latin America
- POLS*3160 [0.50] Women and Politics in the Third World
- POLS*3320 [0.50] Politics of Aid & Development
- POLS*3410 [0.50] U.S. Politics and Government
- POLS*3440 [0.50] Corruption, Scandal and Political Ethics
- POLS*3450 [0.50] European Governments and Politics
- POLS*3670 [0.50] Comparative Public Policy and Administration
- POLS*3890 [0.50] Government and Politics of India
- POLS*3920 [0.50] Modern China

**International Relations and Global Studies**

- POLS*3070 [0.50] Comparative Politics of Asia Pacific
- POLS*3160 [0.50] Women and Politics in the Third World
- POLS*3320 [0.50] Politics of Aid & Development
- POLS*3330 [0.50] Politics and Trade Liberalization in the Americas
- POLS*3490 [0.50] Conflict and Conflict Resolution
- POLS*3790 [0.50] The Political Economy of International Relations

The Department of Political Science offers a comprehensive counselling service for students in Political Science. As part of their program, the department also permits students to include 0.50 credits towards the general degree and 1.00 credits towards the honours degree from an approved list of courses offered by other departments.

Students are encouraged to consult with the departmental advisor for either of these programs about course selection, substitution of courses offered by other departments, or other matters.
Psychology (PSYC)

Department of Psychology, College of Social and Applied Human Sciences

The discipline of Psychology is normally associated with the social sciences, the biological sciences, and the health professions. Specialization in Psychology at Guelph is available as a B.A. honours program major, a B.A. honours program major (co-op), and as an honours specialization in the B.SC. program (described in the schedule of studies for B.SC. programs). Through its different undergraduate programs, the Psychology Department attempts to provide a) a broad general education emphasizing psychological theory and methodology, with an empirical basis in course work (e.g., experiments and projects); b) an appropriate background in psychology for those who leave the University with a graduate degree to embark on careers in related areas (e.g. social services); and c) a sound preparation for graduate study in psychology. Students intending to apply for admission to graduate programs in psychology are advised to refer to the Graduate Studies Advisory Note.

A cumulative average of at least 70% in all course attempts in Psychology is required to enter or continue in the Honours Psychology program major in semesters 4, 5, 6, 7, and 8.

Minors

Students interested in a Minor in Psychology should examine the schedule of studies for the Minors in Psychology. The department does not offer Psychology as an Area of Concentration in the General BA Program.

Note on Honours Courses

Courses designated with (H) are designed for students in a psychology honours specialization. This includes B.A. Honours Psychology (PSYC) major or minor, B.A. Information Systems and Human Behaviour (ISHB) major, B.Sc. Psychology: Brain and Cognition (PBC), major or minor, and the Neuroscience (NEUR) minor. (H) courses are Honours level requiring for registration a cumulative average of at least 70% in all course attempts in Psychology or registration in the ISHB major, NEUR minor, or PBC major or minor. Unless otherwise specified, all other courses may be taken by students in a general or honours program, providing the prerequisites are met.

Core Courses

Students must complete at least 3.00 credits (2.00 credits for the PSYC minor) of the following 2000-level Psychology courses, Psychology students are advised that they are normally expected to complete at least four 2000 level Psychology core courses prior to attempting any 3000 level Psychology courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*2310</td>
<td>Introduction to Social Psychology</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*2330</td>
<td>Principles of Learning</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*2390</td>
<td>Principles of Sensation and Perception</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*2410</td>
<td>Behavioural Neuroscience I</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*2450</td>
<td>Introduction to Developmental Psychology</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*2650</td>
<td>Cognitive Psychology</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*2740</td>
<td>Personality</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Major (Honours Program)

A minimum of 9.00 credits in Psychology is required, including (see notes below):

- 6 of the 2000 level Psychology core courses listed above
- PSYC*1000: Introduction to Psychology
- PSYC*1010: Quantification in Psychology
- PSYC*2040: Research Statistics
- PSYC*2360: Introductory Research Methods
- PSYC*3250: Psychological Measurement

2.00 additional Psychology credits at the 3000 level or above (see Graduate Studies Advisory Note).

1.50 additional psychology credits at the 4000 level (See Graduate Studies Advisory Note).

Notes:

1. PSYC*1010 should normally be completed by the end of semester 2
2. PSYC*2360 should normally be completed by the end of semester 4
3. PSYC*2040 SHOULD NORMALLY BE COMPLETED BY THE END OF SEMESTER 4.

Note: The regulations of the B.A. program state that 7.00 credits must be taken at the 3000 level or above (see B.A. Program Regulations).

With permission of the Psychology Department PRIOR to course selection, up to 1.00 non-psychology credits that would enhance the student's studies in Psychology, especially in preparation for post-graduate work, may be credited towards the total number of credits required for graduation in the honours program major in Psychology.

Graduate Studies Advisory Note: Most graduate programs require the student to have at least a B+ average in order to be considered for admission. Students contemplating graduate work in Psychology are strongly advised to complete the major by completing 0.50 electives credits at the 3000 level or above and 0.50 elective credits at the 4000 level beyond PSYC*4870 and PSYC*4880 (the Honours Thesis courses) which would otherwise satisfy the 3000-4000 level elective requirement for the major.

These students are encouraged to complete the Psychology major as follows:

- PSYC*1000 and PSYC*1010
- 6 of the 2000 level Psychology core courses
- PSYC*2040 and PSYC*2360
- PSYC*3370 and PSYC*3380
- an additional 0.50 credits in Psychology at the 3000 level or above
- PSYC*3520
- PSYC*4370 or PSYC*4900
- 0.50 electives at the 4000 level
- PSYC*4870 plus PSYC*4880

Students should note that the Honours Thesis courses are normally taken in a Fall-Winter sequence worth the equivalent of 1.50 credits toward the 20.00 credits Honours B.A. degree requirements.

Minor (Honours Program)

(May not be taken in combination with a Psychology Honours Major)

A minimum of 6.00 credits is required including:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*1000</td>
<td>Introduction to Psychology</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*1010</td>
<td>Quantification in Psychology</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*2360</td>
<td>Introductory Research Methods</td>
<td>0.50</td>
</tr>
</tbody>
</table>

2.00 credits in the 2000 level Psychology core courses listed above

2.50 credits in Psychology at the 3000/4000 level

Note: Courses designated with (H) in Section XII—Course Descriptions, are Honours level courses requiring for registration a cumulative average of at least 70% in all course attempts in Psychology.

Psychology (Co-op) (PSYC:C)

Department of Psychology, College of Social and Applied Human Sciences

Co-operative Education formally integrates the student's academic study with 3 work terms (COOP*1000, COOP*2000, COOP*3000) in co-operating employer organizations. The Co-op program is offered as a B.A. honours program major degree taken as one of two major options combined with 3 work terms. One of the options is recommended for Co-op students expecting to apply for admission to graduate studies in Psychology. (See Graduate Advisory Note.)

All Co-op students are strongly advised to complete the B.A. requirements by including in their program 3 or more courses from the listing of courses under Business Administration, to ensure that they have 1 or more courses in computer science, accounting and management, or organizational behaviour. (Business Administration is also available as a minor.) Although not required, Co-op students are strongly encouraged to select a minor as part of the program.

Depending on career aspirations, students should have a good working knowledge of one or more of the following before their first work semester: psychological measurement, quantitative methods, computer science, accounting and management, or organizational behaviour.

The first work term normally follows 3 or 4 semesters of academic study (see Section X-Co-operative Education Programs). Students must be eligible to continue in the Honours Psychology program in order to remain in the Co-op program.

Admission to the Co-op program is limited and will be based on academic background. Admission will normally be considered only at semester 1 entry or during semester 2 when the student selects courses for semester 3.

Courses designated with (H) are designed for students in a psychology honours specialization. This includes B.A. Honours Psychology (PSYC) major or minor, B.A. Information Systems and Human Behaviour (ISHB) major, B.Sc. Psychology: Brain and Cognition (PBC), major or minor, and the Neuroscience (NEUR) minor. (H) courses are Honours level requiring for registration a cumulative average of at least 70% in all course attempts in Psychology or registration in the ISHB major, NEUR minor, or PBC major or minor. Unless otherwise specified, all other courses may be taken by students in a general or honours program, providing the prerequisites are met.

Major (Honours Program) - Stream A

The following Co-op schedule of studies is for students not intending to apply for admission to graduate programs in Psychology (includes 3 work terms).

Note: When selecting core and elective credits the student should keep in mind the prerequisites for their desired 3000 and 4000 level courses. When selecting courses beyond Psychology the student should keep in mind both their second specialization and courses appropriate for potential work-term placements.

Semester 1 - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*1000</td>
<td>Introduction to Psychology</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*1010</td>
<td>Quantification in Psychology</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.50 electives*

Semester 2 - Winter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*1100</td>
<td>Introduction to Co-operative Education</td>
<td>0.00</td>
</tr>
</tbody>
</table>

1.00 Psychology core***

1.50 electives*
Summer Semester
Optional, however completion of some semester 3 requirements NOW would allow for additional flexibility in the scheduling of future work terms (see also Stream B for students intending to apply for graduate programs).

Semester 3 - Fall
PSYC*2040 [0.50] Research Statistics
1.50 Psychology core***
0.50 electives*

Winter Semester
COOP*1000 [0.00] Co-op Work Term I

Semester 4 - Summer
1.00 Psychology core
1.50 electives****

Fall Semester
COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter
PSYC*2360 [0.50] Introductory Research Methods
PSYC*3250 [0.50] Psychological Measurement
0.50 Psychology credits at the 3000 or 4000 level**
1.00 electives

Summer Semester
COOP*3000 [0.00] Co-op Work Term III
PSYC*4910 [0.50] Co-operative Education Project I

Semester 6 - Fall
1.00 Psychology electives at the 3000 or 4000 level**
1.50 electives

Semester 7 - Winter
1.00 Psychology electives at the 3000 or 4000 level**
1.50 electives

Semester 8 - Summer
1.00 Psychology electives at the 3000 or 4000 level**
1.50 electives

Summer Semester
Optional

Fall Semester**
COOP*3000 [0.00] Co-op Work Term III
PSYC*4870 [0.50] Honours Thesis I
2.00 electives*

Semester 7 - Winter**
PSYC*4880 [1.00] Honours Thesis II
1.50 electives*

*at least 1.00 of the elective credits in semester 5, 6, 7, or 8 must be a 3000 level or above Psychology elective (and include either PSYC*4370 or PSYC*4900). The total of electives should include the B.A. program distribution requirements and the completion of the total number of credits required at the 3000 level or above required by the B.A. degree.

**the schedule for COOP*3000 and semester 7 requirements can be exchanged

Sociology (SOC)
Department of Sociology and Anthropology, College of Social and Applied Human Sciences
The Department of Sociology and Anthropology offers three types of courses: sociology courses with the prefix SOC*; anthropology courses with the prefix ANTH*; and departmental courses with the prefix SOAN*. The departmental category of courses recognizes the fact that the disciplines of sociology and sociocultural anthropology have developed in tandem and it is possible to identify large areas of overlap and convergence in the work of practitioners both historically and in the present. Departmental courses include most of the core theory and methods courses as well as many elective courses. They contribute equally to the subject matter of sociology as well as the subject matter of sociocultural anthropology for purposes of the undergraduate programs of study in both disciplines. Please see the listings for all courses required for the Sociology program.

Note: the following courses may be used towards a sociology specialization:
FRHD*3060 [0.50] Principles of Social Gerontology
ISS*2990 [0.50] Introduction to Marx
PHIL*2180 [0.50] Philosophy of Science

Courses will normally be offered in the semesters designated. For information on other semesters these courses will be offered and the semester those courses without designations will be offered, please check with the department. In addition to regularly scheduled courses, students may elect to do independent study. A student who wishes to do a reading course should first consult the professor with whom he/she wishes to work. Please note, a student is allowed a total of 1.00 credits only for reading courses. SOAN courses will be used towards the Sociology specializations.

Area of Concentration (General Program)
A minimum of 5.00 credits in Sociology and Anthropology is required, including:
ANTH*1150 [0.50] Introduction to Anthropology
SOAN*2111/2 [1.00] Classical Theory
SOAN*2120 [0.50] Introductory Methods
SOC*1100 [0.50] Sociology
2.50 additional credits in SOC and SOAN courses, including at least 1.00 credits at the 3000 level

Major (Honours Program)
A minimum of 8.00 credits in Sociology and Anthropology is required, including:
ANTH*1150 [0.50] Introduction to Anthropology
SOAN*2111/2 [1.00] Classical Theory
SOAN*2120 [0.50] Introductory Methods
SOAN*3070 [0.50] Qualitative and Observational Methods
SOAN*3120 [0.50] Quantitative Methods
SOC*1100 [0.50] Sociology
SOC*3310 [0.50] Contemporary Theory
4.00 additional credits in SOC and SOAN courses, including at least 1.50 credits at the 4000 level

The following courses may be used toward a sociology specialization:
FRHD*3060 [0.50] Principles of Social Gerontology
ISS*2990 [0.50] Introduction to Marx
PHIL*2180 [0.50] Philosophy of Science

Minor (Honours Program)
A minimum of 5.00 credits in Sociology and Anthropology is required, including:
ANTH*1150 [0.50] Introduction to Anthropology
SOAN*2111/2 [1.00] Classical Theory
SOAN*2120 [0.50] Introductory Methods
SOC*1100 [0.50] Sociology
2.50 additional credits in SOC and SOAN courses, including at least 1.00 credits at the 3000 level or above

The following courses may be used toward a sociology specialization:
FRHD*3060 [0.50] Principles of Social Gerontology
ISS*2990 [0.50] Introduction to Marx
PHIL*2180 [0.50] Philosophy of Science

Statistics (STAT)

Department of Mathematics and Statistics, College of Physical and Engineering Science

The discipline of Statistics is essential in the social sciences, biological sciences, physical sciences, and health professions. The specialization in Statistics emphasizes applications of statistical theory and methods to other disciplines and is available in the B.A. Honours Program as a major or minor and as an area of concentration in the General Program. Students are encouraged to combine the study of statistics with another field.

Statistical computing is a fundamental tool for the application of modern statistical methods. Students in these programs will develop skills in computer applications programming using such high-level languages as SAS and S-PLUS.

Area of Concentration (General Program)

A minimum of 5.00 credits in Statistics and Mathematics is required, including:

a. no more than 1.00 credits from courses at the 1000 level
b. 3.00 credits in statistics (STAT), 2.00 of which must be from courses at the 3000 level or above

Recommended Courses

MATH*1200 [0.50] Calculus I
MATH*1210 [0.50] Calculus II
MATH*2150 [0.50] Applied Matrix Algebra
STAT*2040 [0.50] Statistics I
STAT*2050 [0.50] Statistics II
STAT*3100 [0.50] Introductory Mathematical Statistics I
STAT*3110 [0.50] Introductory Mathematical Statistics II
STAT*3240 [0.50] Applied Regression Analysis
STAT*3320 [0.50] Sampling Theory with Applications

Honours Programs

Students who major or minor in Statistics may not receive credit for the following courses unless taken to satisfy the requirements of another program: ECON*2740, PSYC*2010, PSYC*3320, SOAN*3120.

Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum of 20.00 credits is required to complete the degree, with a minimum of 9.50 credits required as below to complete the major.

1.50 credits as follows:
CIS*1500 [0.50] Introduction to Programming
MATH*1200 [0.50] Calculus I
MATH*1210 [0.50] Calculus II

5.00 credits in Statistics and Mathematics as follows:
MATH*2130 [0.50] Numerical Methods
MATH*2200 [0.50] Advanced Calculus I
STAT*2040 [0.50] Statistics I
STAT*2050 [0.50] Statistics II
STAT*3100 [0.50] Introductory Mathematical Statistics I
STAT*3110 [0.50] Introductory Mathematical Statistics II
STAT*3210 [0.50] Experimental Design
STAT*3240 [0.50] Applied Regression Analysis
STAT*3320 [0.50] Sampling Theory with Applications

One of:
MATH*2150 [0.50] Applied Matrix Algebra
MATH*2160 [0.50] Linear Algebra I

0.50 additional credits in Statistics
0.50 additional credits in Statistics or Mathematics

Recommended Schedule of Studies for Major (Honours Program)

Semester 1

MATH*1200 [0.50] Calculus I
2.00 electives*

Semester 2

CIS*1500 [0.50] Introduction to Programming
MATH*1210 [0.50] Calculus II
1.50 electives

Semester 3

MATH*2200 [0.50] Advanced Calculus I
STAT*2040 [0.50] Statistics I
One of:
MATH*2150 [0.50] Applied Matrix Algebra
MATH*2160 [0.50] Linear Algebra I
1.00 electives**

Semester 4

MATH*2130 [0.50] Numerical Methods
STAT*2050 [0.50] Statistics II
1.50 electives**

Semester 5

STAT*3100 [0.50] Introductory Mathematical Statistics I
STAT*3240 [0.50] Applied Regression Analysis
STAT*3320 [0.50] Sampling Theory with Applications
1.00 electives**

Semester 6

STAT*3110 [0.50] Introductory Mathematical Statistics II
STAT*3210 [0.50] Experimental Design
1.50 electives**

Semester 7

2.50 electives**

Semester 8

2.50 electives**

* See "Semester One Requirements" for Bachelor of Arts programs.

**Electives must satisfy the following requirements:
1. Electives must include at least 2.50 credits in Statistics at the 3000 or 4000 level, and an additional 0.50 credits in Statistics or Mathematics at the 2000 level or above.
2. At least 2.00 credits in Statistics must be at the 4000 level.
3. Electives plus core courses must include at least 7.00 credits at the 3000 or 4000 level.

Minor (Honours Program)

At least 5.00 credits in Statistics or Mathematics is required, including:
MATH*1200 [0.50] Calculus I
MATH*1210 [0.50] Calculus II
STAT*2040 [0.50] Statistics I
STAT*2050 [0.50] Statistics II
STAT*3100 [0.50] Introductory Mathematical Statistics I
STAT*3110 [0.50] Introductory Mathematical Statistics II
STAT*3240 [0.50] Applied Regression Analysis

One of:
MATH*2150 [0.50] Applied Matrix Algebra
MATH*2160 [0.50] Linear Algebra I

0.50 additional credits in Statistics
0.50 additional credits in Statistics or Mathematics

Studio Art (SART)

School of Fine Art and Music, College of Arts

The School offers programs that allow for concentrated study in Art History or in Studio Art, or a combination of the two disciplines.

The Studio Art program provides a thorough grounding in contemporary art practice, art history, theory, and criticism. Courses are offered in drawing, painting, photography, printmaking, sculpture, computer graphics, and extended practices. Studio Art majors must also take a selection of courses in art history. Specific requirements are listed below.

Cost of Studio Supplies

The majority of the cost of supplies must be borne by the student. In order to permit the University to subsidize this cost and to allow for savings through discount buying, some materials are obtained through the school by payment of a lab fee. The amount of the fee is established for each semester prior to registration.

Student Counselling

Students who elect to take a substantial number of credits in Studio Art with the objective of graduate work are advised to obtain counseling from their academic advisor regarding their choices. However, in general, it is important to know that graduate studies in Studio Art normally require an in-depth knowledge of traditional and contemporary media, as well as a significant awareness of contemporary art history and theory. Students are encouraged to take electives in other disciplines from across the University to inform their Studio Art practice. Cognate electives in other disciplines in the College of Arts, such as Philosophy, History, and English will almost certainly prove an asset.

Core Requirements

ARTH*1220 [0.50] The Visual Arts Today
ARTH*1520 [0.50] Art Historical Studies II
SART*1050 [0.50] Foundation Studio
SART*1060 [0.50] Core Studio

Major (Honours Program)

A minimum of 9.00 credits is required, including:

a. the Studio Art core
b. 2.00 additional credits in Studio Art, including at least 0.50 credits from List A and 0.50 from List B
c. 2.00 additional credits in Art History including at least 0.50 credits at the 3000 level or above

d. 3.00 additional credits in Studio Art including 1.50 credits at the 4000-level

List A

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SART*2090</td>
<td>0.50</td>
<td>Drawing I</td>
</tr>
<tr>
<td>SART*2200</td>
<td>0.50</td>
<td>Painting I</td>
</tr>
<tr>
<td>SART*2460</td>
<td>0.50</td>
<td>Introductory Printmaking I</td>
</tr>
<tr>
<td>SART*2470</td>
<td>0.50</td>
<td>Introductory Printmaking II</td>
</tr>
<tr>
<td>SART*2610</td>
<td>0.50</td>
<td>Photography I</td>
</tr>
<tr>
<td>SART*2700</td>
<td>0.50</td>
<td>Introduction to Computer Graphics</td>
</tr>
<tr>
<td>SART*2710</td>
<td>0.50</td>
<td>Drawing Graphics on the Computer</td>
</tr>
<tr>
<td>SART*3090</td>
<td>0.50</td>
<td>Drawing II</td>
</tr>
<tr>
<td>SART*3200</td>
<td>0.50</td>
<td>Painting II</td>
</tr>
<tr>
<td>SART*3410</td>
<td>0.50</td>
<td>Intaglio</td>
</tr>
<tr>
<td>SART*3450</td>
<td>0.50</td>
<td>Lithography</td>
</tr>
<tr>
<td>SART*3470</td>
<td>0.50</td>
<td>Photo-Printmaking</td>
</tr>
<tr>
<td>SART*3480</td>
<td>0.50</td>
<td>Web Development and Design</td>
</tr>
<tr>
<td>SART*3600</td>
<td>0.50</td>
<td>Digital &amp; Non-Silver Photography</td>
</tr>
<tr>
<td>SART*3750</td>
<td>0.50</td>
<td>Photography II</td>
</tr>
<tr>
<td>SART*4090</td>
<td>0.50</td>
<td>Drawing III</td>
</tr>
<tr>
<td>SART*4130</td>
<td>1.00</td>
<td>Drawing IV</td>
</tr>
<tr>
<td>SART*4200</td>
<td>0.50</td>
<td>Painting III</td>
</tr>
<tr>
<td>SART*4230</td>
<td>0.50</td>
<td>Special Topics in Painting</td>
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<tr>
<td>SART*4240</td>
<td>1.00</td>
<td>Painting IV</td>
</tr>
<tr>
<td>SART*4410</td>
<td>0.50</td>
<td>Experimental Printmaking</td>
</tr>
<tr>
<td>SART*4470</td>
<td>1.00</td>
<td>Advanced Printmaking</td>
</tr>
<tr>
<td>SART*4700</td>
<td>0.50</td>
<td>Photography III</td>
</tr>
<tr>
<td>SART*4720</td>
<td>1.00</td>
<td>Photography IV</td>
</tr>
<tr>
<td>SART*4890</td>
<td>1.00</td>
<td>Interactive Multimedia</td>
</tr>
</tbody>
</table>

List B

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SART*2300</td>
<td>0.50</td>
<td>Sculpture I</td>
</tr>
<tr>
<td>SART*2800</td>
<td>0.50</td>
<td>Extended Practices I</td>
</tr>
<tr>
<td>SART*3300</td>
<td>0.50</td>
<td>Sculpture II</td>
</tr>
<tr>
<td>SART*3770</td>
<td>0.50</td>
<td>Extended Practices II</td>
</tr>
<tr>
<td>SART*4300</td>
<td>0.50</td>
<td>Sculpture III</td>
</tr>
<tr>
<td>SART*4330</td>
<td>1.00</td>
<td>Senior Sculpture</td>
</tr>
<tr>
<td>SART*4660</td>
<td>0.50</td>
<td>Topics in Extended Practices</td>
</tr>
<tr>
<td>SART*4670</td>
<td>0.50</td>
<td>Topics in Extended Practices</td>
</tr>
<tr>
<td>SART*4800</td>
<td>0.50</td>
<td>Special Topics in Sculpture</td>
</tr>
<tr>
<td>SART*4810</td>
<td>0.50</td>
<td>Extended Practices III</td>
</tr>
<tr>
<td>SART*4870</td>
<td>0.50</td>
<td>Special Topics in Sculpture</td>
</tr>
<tr>
<td>SART*4880</td>
<td>1.00</td>
<td>Extended Practices IV</td>
</tr>
</tbody>
</table>

Notes:
1. In accordance with the B.A. program regulation limiting the number of credits to be taken in any subject area, OCAD graduates granted the maximum advanced standing of credits in Studio Arts will be limited to 2.00 additional credits in Studio Arts at the University of Guelph.

2. A cumulative average of at least 70% in all course attempts in Studio Arts and Art History is required in order to enter or continue in the Honours Studio Arts program.

3. Students in SART can fulfill one of the natural and mathematical sciences B.A. distribution requirements with HK*2100. This credit cannot be used towards the SART major.

Theatre Studies (THST)

School of English and Theatre Studies, College of Arts

The Theatre Studies program is a component of a liberal education, and is dedicated to integrating academic study and theatre practice. The program offers introductory and advanced courses in dramatic literature, theatre history, criticism and theory, together with directing, acting, design, technical theatre, playwriting, and media studies.

The program has a special interest in the drama and theatre of Canada. Course offerings reflect this interest where appropriate.

Notes:
1. A maximum of 2.00 credits in Directed Readings or Special Studies Courses (THST*3410, THST*3420, THST*3600, DRMA*3610) is allowed in the honours program major. A maximum of 1.00 credits in such courses is allowed in honours program minor or the general program area of concentration. Students will normally be permitted to take only 0.50 credits in Directed Readings or Special Studies courses per semester.

Certain approved Dramatic Literature courses from the English Program within the School of English and Theatre Studies or other departments may be counted towards a degree in Theatre Studies. A list of approved courses may be obtained from the School’s website: http://www.arts.uoguelph.ca/sets/.
Bachelor of Arts and Sciences (B.A.S.)

The University of Guelph offers an 8 semester (20.00 credits) honours program leading to a Bachelor of Arts and Sciences (B.A.S.) degree.

The Bachelor of Arts & Sciences program is designed for students who are motivated equally by the study of Arts/Social Sciences and the Sciences, and who find challenge and satisfaction in testing the traditional boundaries of study through undergraduate level interdisciplinary work. The program meets these objectives through a unique structure that accredits students in an Arts/Social Sciences core, a Sciences core, a Subject Area core of interdisciplinary humanities and sciences courses (ASCI*), and a minor in each of the Arts/Social Sciences and the Sciences (see program information for choices of minors). The structure of the program ensures disciplinary rigour and breadth through completion of core requirements for a B.A.S. degree, concentration in two distinct minors, and concentration of learning in an academic cohort of B.A.S. students through the interdisciplinary ASCI courses in the B.A.S. core. This core is open only to students in the B.A.S. program.

Program Information

Academic Counselling

The B.A.S. program counsellor assists students in the selection of minors, interpreting program and academic regulations, and with the selection of appropriate courses for chosen minors and distribution requirements. Students should consult the counsellor when experiencing particular difficulties affecting academic standing and progress through the program. Students are encouraged to check the B.A.S. program website regularly for course information and cross-listing of acceptable credits where appropriate.

Core Requirements for BAS Science Minors

If you choose this BAS Science Minor, then

<table>
<thead>
<tr>
<th>Discipline</th>
<th>The BAS Science Core Requirements would be:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>BIOL<em>1070, BIOL</em>1090, [(CHEM<em>1040, CHEM</em>1050) or (MATH<em>1080, STAT</em>2040)]</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>BIOL<em>1080, BIOL</em>1090, CHEM<em>1040, CHEM</em>1050</td>
</tr>
<tr>
<td>Biology</td>
<td>BIOL<em>1070, BIOL</em>1090, [(CHEM<em>1040, CHEM</em>1050) or (MATH<em>1080, STAT</em>2040)]</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>BIOL<em>1080, BIOL</em>1090, CHEM<em>1040, CHEM</em>1050</td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHEM<em>1040, CHEM</em>1050, MATH<em>1200, MATH</em>1210</td>
</tr>
<tr>
<td>Computing &amp; Information Science</td>
<td>CIS<em>1500, CIS</em>1910, STAT<em>2040, STAT</em>2050</td>
</tr>
<tr>
<td>Ecology</td>
<td>BIOL<em>1070, BIOL</em>1090, STAT<em>2040, (MATH</em>1080 or MATH*1200)</td>
</tr>
<tr>
<td>GIS &amp; Environmental Analysis</td>
<td>ENVS<em>1050, GEOG</em>1300, STAT<em>2040, (MATH</em>1080 or MATH*1200)</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MATH<em>1200, MATH</em>1210, STAT<em>2040, STAT</em>2050</td>
</tr>
<tr>
<td>Mathematical Sciences</td>
<td>MATH<em>1200, MATH</em>1210, STAT<em>2040, STAT</em>2050</td>
</tr>
<tr>
<td>Microbiology</td>
<td>BIOL<em>1080, BIOL</em>1090, CHEM<em>1040, CHEM</em>1050</td>
</tr>
<tr>
<td>Molecular Biology and Genetics</td>
<td>BIOL<em>1080, BIOL</em>1090, (CHEM<em>1040, CHEM</em>1050)</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>BIOL<em>1080, BIOL</em>1090, CHEM<em>1040, CHEM</em>1050</td>
</tr>
<tr>
<td>Nutritional and Nutraceutical Sciences</td>
<td>BIOL<em>1080, BIOL</em>1090, CHEM<em>1040, CHEM</em>1050</td>
</tr>
<tr>
<td>Plant Science</td>
<td>BIOL<em>1070, BIOL</em>1090, CHEM<em>1040, CHEM</em>1050</td>
</tr>
<tr>
<td>Physics</td>
<td>PHYS<em>1000, PHYS</em>1010, MATH<em>1200, MATH</em>1210</td>
</tr>
<tr>
<td>Psychology: Brain and Cognition</td>
<td>MATH<em>1080, STAT</em>2040, [(CHEM<em>1040, CHEM</em>1050) or (2 of BIOL<em>1070, BIOL</em>1080, BIOL*1090)]</td>
</tr>
<tr>
<td>Statistics</td>
<td>MATH<em>1200, MATH</em>1210, STAT<em>2040, STAT</em>2050</td>
</tr>
<tr>
<td>Zoology</td>
<td>BIOL<em>1070, BIOL</em>1090, [(CHEM<em>1040, CHEM</em>1050) or STAT<em>2040, (MATH</em>1080 or MATH*1200)]</td>
</tr>
</tbody>
</table>

2. Arts and Social Science Core - 2.00 credits including:

a. 1.00 credits over at least 2 different subject areas in the College of Arts: ARTH - Art History; CHIN - Mandarin; CLAS - Classical Studies; ENGL - English; EURO - European Studies; FREN - French Studies; GERMAN - German Studies; GREK - Greek; HIST - HISP - Hispanic Studies; History; HUMN - Humanities; ITAL - Italian Studies; LAT - Latin Studies; LING - Linguistics; MUSC - Music; PHIL - Philosophy; PORT - Portuguese; THST - Theatre Studies.

b. 1.00 credits over at least 2 different subject areas (listed below) in the College of Social and Applied Human Sciences or College of Management and Economics: ANTH - Anthropology; ECON - Economics; GEOG - Geography; IDEV - International Development Studies; ISS - Interdisciplinary Social Science; POLS - Political Science; PSYC - Psychology; SOAN - Sociology and Anthropology; SOC - Sociology; UNIV - Interdisciplinary University.

3. Subject Area Core (ASCI) - 3.00 credits

- 1.50 credits from:
  - ASCI*1000 [0.50] Society and Science I: Historical Perspectives
  - ASCI*1010 [0.50] Society and Science II: Current Issues
  - ASCI*2000 [0.50] Modes of Inquiry and Communication Across Disciplines

- 0.50 credits from:
  - ASCI*3000 [0.50] Arts and Sciences Community Project
  - ASCI*3100 [0.50] Case Studies in Arts and Sciences Research
  - ASCI*3700 [0.50] Independent Studies in Arts/Sciences

- 1.00 credits from:
  - ASCI*4010 [1.00] Arts and Sciences Honours Research Seminar
ASCI*4020 [0.50] Topics in Arts and Sciences Research
ASCI*4030 [0.50] Topics in Arts and Sciences Research
ASCI*4700 [0.50] Independent Studies in Arts/Sciences
ASCI*4710 [0.50] Independent Studies in Arts/Sciences

Note: Of the 20.00 credits required for this program, 3.00 credits must be completed at the 3000 or 4000 level, and 2.00 credits at the 4000 level. This requirement is partially fulfilled by senior level courses in the Subject Core (ASCI) requirements.

4. Arts/Social Sciences Minors - 5.00 credits (Minimum)

Minors available in the Arts/ Social Sciences core (see B.A. program descriptions):
- Anthropology
- Art History
- Business Administration
- Classical Studies
- Criminal Justice & Public Policy
- Economics
- English
- Ethics in the Life Sciences
- European Culture and Civilization
- Family & Child Studies
- French Studies
- Geography
- German
- Hispanic Studies
- History
- International Development
- Italian
- Marketing Management
- Museum Studies
- Music
- Philosophy
- Political Science
- Psychology
- Sociology
- Theater Studies

5. Science Minor - 5.00 credits (Minimum)

Minors available in the Science core (see B.Sc. program descriptions):
- Agriculture (see B.Sc.(Agr.) program description)
- Biochemistry
- Biology
- Biotechnology
- Chemistry
- Computing & Information Science
- Ecology
- GIS* & Environmental Analysis
- Mathematics
- Mathematical Science
- Microbiology
- Molecular Biology and Genetics
- Neuroscience
- Nutritional and Nutraceutical Sciences
- Physics
- Plant Science
- Psychology: Brain and Cognition
- Statistics
- Zoology
- * Geographic Information Systems

6. Free Electives - 3.00 credits

The program includes 3.00 free electives. Electives may be completed in any subject area. The number of free electives is reduced if a minor requires more than 5.00 credits.

This program includes 3.00 credits at the 3000 or 4000 level, including 2.00 credits at the 4000 level. This requirement is partially fulfilled by senior level courses in the Subject Area Core (ASCI) requirements.

A maximum of 7.00 credits at the 1000 level may be counted toward the 20.00 credits requirement.

Students cannot, of course, select Psychology or Mathematics for both their B.Sc. and B.A. minors.

Double Counting Rule

A maximum of 3.00 credits may be double-counted:

a. 1.00 credits may be double-counted between minors.
b. 2.00 credits may be double-counted between a core and one minor.

Students may not triple-count a course between a core and two minors.
Bachelor of Bio-Resource Management Degree (B.B.R.M.)

The University of Guelph, in collaboration with the regional campuses at Ridgetown and Kemptville, offers a 20.00 credit program, normally completed over 8 semesters, leading to a Bachelor of Bio-Resource Management degree (B.B.R.M.). This degree is a unique blend of applied and theoretical learning, with an emphasis on experiential learning opportunities. At the present time, two majors, Environmental Management and Equine Management, are available in the program through University of Guelph's Ridgetown campus and Kemptville campus respectively with Semester 5 to 8 offered at the Guelph campus.

Program Information

The Bachelor of Bio-Resource Management degree program combines business studies and technical training with a strong emphasis on hands-on learning. A solid foundation in applied aspects of science, technology, and business provides graduates with sufficient breadth and expertise to become competent managers in the environmental or equine fields. Students begin studying in one of the following management majors during the first semester: Environmental Management, Equine Management.

The first 10.00 credits of the Environmental Management Major are available through the Ridgetown campus and the first 10.00 credits of the Equine Management Major are available through the Kemptville campus. The additional 10.00 credits for both majors are available through the Guelph Campus.

Students will be encouraged to integrate their academic program with a well-planned series of employment activities in the summer months and to develop their leadership and interpersonal skills in on-campus and community activities. There is a strong commitment in the curriculum to personal development and students are encouraged to identify goals that they wish to accomplish throughout their university career.

Academic Advising and Counselling

Program Counselling

Program Counsellors are available at both the Ridgetown, Kemptville and Guelph campuses to assist in-course students who require information or advice about their program or other academic regulations and who seek information about resources available to students. For information about how to contact a program counsellor, and for more information about program counselling, see Section VII -- Academic Counselling of the current Undergraduate Calendar.

Departmental Advising

On entering the program all students are assigned to a faculty advisor who will mentor them throughout their first two years. The faculty advisor is familiar with the academic requirements of the program and is aware of career opportunities. Students are strongly encouraged to attend all meetings called by their advisor, and to set up individual meetings with him/her when they have questions or concerns about their performance or progress in the program.

Continuation of Study

Students are advised to consult the regulations for Continuation of Study which are outlined in detail in Section VIII -- Undergraduate Degree Regulations & Procedures in the current calendar.

Conditions for Graduation

To qualify for the degree Bachelor of Bio-Resource Management, the student must successfully complete a minimum of 20.00 credits as set out in the Schedule of Studies as listed. In addition, students must meet the continuation of study requirements at the time of graduation and have a minimum cumulative average of 60%.

Schedule of Studies

Courses specified in the Schedule of Studies are required courses and must be successfully completed. A full time course load normally includes 2.50 credits.

Special Expenses

Equine Management students may have the opportunity to board their horse on campus or at a local facilities. Please contact BBRM program counsellor Katrina Merkies at kmerkies@kemptville.uoguelph.ca for more information.

B.B.R.M. Program Regulations

Recommendations

Students entering the degree program who are deficient in U level Mathematics or Chemistry should consult with the program counsellor.

Environmental Management Major (EM)

School of Environmental Sciences and Department of Food, Agricultural and Resource Economics

This major will require the completion of 20.00 credits.

Semesters 1 to 4 offered at the Ridgetown campus

Semester 1

BIOL*1070 [0.50] Discovering Biodiversity

CHEM*1040 [0.50] General Chemistry I

ENVM*1200 [1.00] Introduction to Environmental Science and Ecology

FARE*1100 [0.50] Introduction to Business

Semester 2

ENVM*1020 [0.50] Introduction to Environmental Microbiology

ENVM*1120 [0.50] Environmental Monitoring

ENVS*2060 [0.50] Soil Science

FARE*1040 [1.00] Intro to Environmental Economics, Law & Policy

Semester 3

ACCT*2220 [0.50] Financial Accounting

BIOL*1050 [0.50] Biology of Plants & Animals in Managed Ecosystems

ENVM*1050 [0.50] Surveying and GIS

ENVM*1130 [0.50] Introduction to Renewable Energy

ENVM*2050 [0.50] Agriculture and Environmental Stewardship

Semester 4

ENVM*3500 [1.00] Environmental Management Integrated Project

ENVS*2040 [0.50] Plant Health and the Environment

ENVS*3020 [0.50] Pesticides and the Environment

ENVS*3060 [0.50] Groundwater

Semesters 5 to 8 offered on Guelph campus

Semester 5

BIOL*2060 [0.50] Ecology

ENVS*2230 [0.50] Communications in Environmental Science

FARE*2700 [0.50] Survey of Natural Resource Economics

One of:

GEOG*2460 [0.50] Analysis in Geography

STAT*2060 [0.50] Statistics for Business Decisions

0.50 electives or restricted electives

Semester 6

2.50 electives or restricted electives

Semester 7

2.50 electives or restricted electives

Semester 8

2.50 electives or restricted electives

Restricted Electives

1. Students must successfully complete a minimum of 6.00 credits at the 3000 level or higher, of which at least 2.00 credits must be at the 4000 level. Those credits at the 3000 level or above selected to satisfy Item #2 below will be applied to satisfy these minimum credit requirements.

Students should note that some restricted electives require other courses not included among the required courses for the major as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

Students should consult with a faculty advisor before Semester 5 in planning their restricted elective choices. Students are advised to pay particular attention to prerequisite requirements when choosing individual courses and seek advise as needed.

2. Students must select a minimum of 6.00 credits from the following lists of restricted electives.

A minimum of 3.00 credits from any of the following lists without regard to group of which at least 1.00 credits must be at the 4000 level:

Aquatic Science:

BIOL*3450 [0.50] Introduction to Aquatic Environments

CHEM*3360 [0.50] Environmental Chemistry and Toxicology

EDRD*3450 [0.50] Watershed Planning Practice

ENVS*3230 [0.50] Current Issues in Microbial and Molecular Science

ENVS*3130 [0.50] Lab and Field Methods in Groundwater

ENVS*3190 [0.50] Environmental Water Chemistry

GEOG*3610 [0.50] Environmental Hydrology

Atmospheric Science:

ENVS*2020 [0.50] Agrometeorology

ENVS*2030 [0.50] Meteorology and Climatology

ENVS*2310 [0.50] Current Issues in Earth Surface Processes

ENVS*3050 [0.50] Microclimatology

ENVS*4210 [0.50] Atmospheric Experimentation and Instrumentation

GEOG*2110 [0.50] Climate and the Biophysical Environment

Conservation and Biodiversity Science:

BIOL*3120 [0.50] Community Ecology

BIOL*3130 [0.50] Conservation Biology

ENVS*2210 [0.50] Introductory Apiculture

ENVS*2330 [0.50] Current Issues in Ecosystem Science and Biodiversity

ENVS*3000 [0.50] Nature Interpretation

ENVS*3010 [0.50] Climate Change Biology

ENVS*3090 [0.50] Insect Diversity and Biology
### Ecosystem and Resource Management:

- **ENVS*3230** [0.50] Agroforestry Systems
- **ENVS*3250** [0.50] Forest Health and Disease
- **ENVS*3270** [0.50] Forest Biodiversity
- **ENVS*4040** [0.50] Behaviour of Insects
- **ENVS*4230** [0.50] Biology of Aquatic Insects
- **ENVS*4260** [0.50] Field Entomology
- **ENVS*4350** [0.50] Forest Ecology
- **GEOG*3320** [0.50] Food Systems: Issues in Security and Sustainability

### Plant Health:

- **ENVS*4070** [0.50] Biological and Cultural Control of Plant Diseases
- **ENVS*2340** [0.50] Current Issues in Agriculture and Landscape Mgmt
- **ENVS*3040** [0.50] Natural Chemicals in the Environment
- **ENVS*3210** [0.50] Plant Pathology
- **ENVS*4100** [0.50] Integrated Management of Invasive Insect Pests
- **ENVS*4130** [0.50] Chemical Ecology: Principles & Practice
- **ENVS*4240** [0.50] Biological Activity of Pesticides

### Soil and Nutrient Management:

- **ENVS*3070** [0.50] Environmental Soil Chemistry
- **ENVS*3080** [0.50] Soil and Water Conservation
- **ENVS*3130** [0.50] Lab and Field Methods in Groundwater
- **ENVS*3200** [0.50] Environmental Soil Biology
- **ENVS*4090** [0.50] Soil Management
- **ENVS*4160** [0.50] Soil and Nutrient Management
- **ENVS*4250** [0.50] Soils in the Landscape
- **PBO*4100** [0.50] Soil Plant Relationships

### Business and Management:

- **ACCT*2230** [0.50] Management Accounting
- **ACCT*3230** [0.50] Intermediate Management Accounting
- **ACCT*2240** [0.50] Applied Financial Accounting
- **ACCT*4230** [0.50] Advanced Management Accounting
- **MGMT*2150** [0.50] Introduction to Canadian Business Management
- **MGMT*3020** [0.50] Corporate Social Responsibility
- **MGMT*3320** [0.50] Financial Management
- **FARE*3170** [0.50] Cost-Benefit Analysis
- **FARE*3310** [0.50] Operations Management
- **FARE*4290** [0.50] Land Economics
- **FARE*4310** [0.50] Resource Economics
- **FARE*4360** [0.50] Marketing Research
- **FARE*4370** [0.50] Food & Agri Marketing Management

### Leadership and Communications:

- **BUS*2090** [0.50] Individuals and Groups in Organizations
- **EDRD*2020** [0.50] Interpersonal Communication
- **EDRD*3140** [0.50] Organizational Communication
- **EDRD*3400** [0.50] Sustainable Communities
- **EDRD*4120** [0.50] Leadership Development in Small Organizations
- **HROB*2010** [0.50] Foundations of Leadership
- **HROB*4010** [0.50] Leadership Capstone

### Agriculture and Food Issues Problem Solving:

- **AGR*3450** [0.50] Research Methods in Agricultural Science
- **AGR*3500** [0.50] Experiential Education I
- **BIOC*2580** [0.50] Introduction to Biochemistry
- **CHEM*1050** [0.50] General Chemistry II
- **ECOE*1100** [0.50] Introductory Macroeconomics
- **GEOG*1300** [0.50] Introduction to the Biophysical Environment

### Geographical majors:

- **GEOG*1350** [0.50] Earth: Hazards and Global Change

<table>
<thead>
<tr>
<th>Restricted Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students must select a minimum of 6.00 credits from the following lists of restricted electives:</td>
</tr>
<tr>
<td>AGR*4450 [1.00] Research Project I</td>
</tr>
<tr>
<td>AGR*4460 [1.00] Research Project II</td>
</tr>
<tr>
<td>AGR*4600 [1.00] Agriculture and Food Issues Problem Solving</td>
</tr>
<tr>
<td>ENVS*3410 [0.50] Independent Research I</td>
</tr>
<tr>
<td>ENVS*3420 [0.50] Independent Research II</td>
</tr>
<tr>
<td>ENVS*3430 [1.00] Independent Research</td>
</tr>
<tr>
<td>ENVS*4410 [1.00] Advanced Independent Research I</td>
</tr>
<tr>
<td>ENVS*4420 [1.00] Advanced Independent Research II</td>
</tr>
<tr>
<td>ENVS*4430 [0.24] Advanced Independent Research</td>
</tr>
<tr>
<td>FARE*4550 [0.50] Independent Studies I</td>
</tr>
<tr>
<td>FARE*4560 [0.50] Independent Studies II</td>
</tr>
</tbody>
</table>

### Equine Management Major (EQM)

**Department of Animal and Poultry Science and the Department of Food, Agricultural and Resource Economics**

The major in Equine Management focuses on the development of leaders with a genuine regard for all horses and their well-being, a conscious concern for the environment, and a passionate interest in all aspects of the horse industry. The program combines a solid background in business, biological sciences and equine management through practical and theoretical experience. It provides in-depth understanding of the economic, environmental and social dimensions of all equine disciplines with a broad and current knowledge of horse industry issues and develops the skills to gather, access, interpret and apply industry data. The flexibility provided in semesters 6 and 7 permits students to participate in international exchanges and semesters abroad. Students can also incorporate a variety of field trips, experiential learning in the workplace and independent research projects into their program.

This major will require the completion of 20.00 credits.

**Semesters 1 to 4 offered at the Kemptville campus**

**Semester 1 - Fall**
- **BIOL*1050** [0.50] Biology of Plants & Animals in Managed Ecosystems
- **ECON*1050** [0.50] Introductory Microeconomics
- **EQN*1010** [1.00] Introduction to Equine Management
- **EQN*1060** [0.50] Equine Event Management I

**Semester 2 - Winter**
- **CHEM*1100** [0.50] Chemistry Today
- **ECON*1100** [0.50] Introductory Macroeconomics
- **ENVS*2060** [0.50] Soil Science
- **EQN*1070** [0.50] Equine Event Management II
- **EQN*2150** [0.50] Equine Facility Management and Design

**Semester 3 - Fall**
- **ACCT*2220** [0.50] Financial Accounting
- **AGR*2030** [0.50] Pasture Management
- **BIOL*1090** [0.50] Introduction to Molecular and Cellular Biology
- **EQN*2040** [0.50] Equine Anatomy and Physiology
- **EQN*2200** [0.50] Equine Industry Trends and Issues I

**Semester 4 - Winter**
- **EQN*2050** [0.50] Introduction to Equine Nutrition
- **EQN*3060** [0.50] Equine Reproduction
- **EQN*3070** [0.50] Equine Health Management
- **EQN*3500** [1.00] Equine Integrated Project

**Semesters 5 to 8 offered at the Guelph campus**

**Semester 5 - Fall**
- **ACCT*2230** [0.50] Management Accounting
- **ANSC*3080** [0.50] Agricultural Animal Physiology
- **STAT*2060** [0.50] Statistics for Business Decisions
1.00 electives or restricted electives

**Semester 6 - Winter**
- **EQN*3050** [0.50] Equine Exercise Physiology
2.00 electives or restricted electives

**Semester 7 - Fall**
- **EQN*4020** [0.50] Grassing the Performance Horse
2.50 electives or restricted electives

**Semester 8 - Winter**
- **EQN*4020** [0.50] Feeding the Performance Horse
1.50 electives or restricted electives

**Restricted Electives**

Students must select a minimum of 6.00 credits from the following lists of restricted electives.
Students should note that some restricted electives require other courses not included among the required courses for the major as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

1. Students must select a minimum of 1.50 credits during semesters 5-8 from any of the following lists (grouped by topic areas):
   
   **Animal Biology:**
   - AGR*2350 [0.50] Animal Production Systems, Health and Industry
   - ANSC*3210 [0.50] Principles of Animal Care and Welfare
   - ANSC*4090 [0.50] Applied Animal Behaviour
   - ANSC*4100 [0.50] Applied Environmental Physiology and Animal Housing
   - ANSC*4490 [0.50] Applied Endocrinology
   - ANSC*4650 [0.50] Comparative Immunology
   - POPM*4230 [0.50] Animal Health

   **Genetics:**
   - ANSC*4020 [0.50] Genetics of Companion Animals
   - MBG*2400 [0.50] Fundamentals of Plant and Animal Genetics
   - MBG*3060 [0.50] Quantitative Genetics
   - MBG*4030 [0.50] Animal Breeding Methods and Applications

   **Pasture and Turf Management:**
   - CROP*3340 [0.50] Managed Grasslands
   - ENVS*3080 [0.50] Soil and Water Conservation
   - ENVS*3140 [0.50] Management of Turfgrass Diseases
   - One of:
     - ENVS*4090 [0.50] Soil Management
     - ENVS*4160 [0.50] Soil and Nutrient Management
   - HORT*2450 [0.50] Introduction to Turfgrass Science
   - HORT*3050 [0.50] Management of Turfgrass Insect Pests and Weeds
   - HORT*4450 [0.50] Advanced Turfgrass Science
   - PBIO*4100 [0.50] Soil Plant Relationships

   **Advanced Nutrition:**
   - BIOC*2580 [0.50] Introduction to Biochemistry
   - CHEM*1040 [0.50] General Chemistry I
   - CHEM*1050 [0.50] General Chemistry II
   - NUTR*3210 [0.50] Fundamentals of Nutrition

2. Students must select a minimum of 1.50 credits during semesters 5-8 from any of the following lists (grouped by topic areas):
   
   **Accounting:**
   - ACCT*2240 [0.50] Applied Financial Accounting
   - ACCT*3230 [0.50] Intermediate Management Accounting
   - ACCT*4230 [0.50] Advanced Management Accounting

   **Business and Management:**
   - BUS*2090 [0.50] Individuals and Groups in Organizations
   - HROB*2010 [0.50] Foundations of Leadership
   - HROB*4010 [0.50] Leadership Capstone
   - MGMT*2150 [0.50] Introduction to Canadian Business Management
   - MGMT*3020 [0.50] Corporate Social Responsibility
   - MGMT*3320 [0.50] Financial Management

   **Food, Agricultural and Resource Economics:**
   - FARE*2700 [0.50] Survey of Natural Resource Economics
   - FARE*3310 [0.50] Operations Management
   - FARE*3170 [0.50] Cost-Benefit Analysis
   - FARE*4220 [0.50] Advanced Agribusiness Management
   - FARE*4360 [0.50] Marketing Research
   - FARE*4370 [0.50] Food & Agri Marketing Management
   - FARE*4290 [0.50] Land Economics
   - FARE*4550 [0.50] Independent Studies I

3. Students must select a minimum of 1.00 credits during semesters 5-8 from any of the following lists:
   
   **Animal Biology:**
   - AGR*3010 [0.50] Special Studies in Agricultural Science I
   - AGR*4010 [0.50] Special Studies in Agricultural Science II
   - AGR*4600 [1.00] Agriculture and Food Issues Problem Solving
   - AGR*4450 [1.00] Research Project I
   - AGR*4460 [1.00] Research Project II
   - ANSC*4610 [0.50] Critical Analysis in Animal Science

4. Students may also count any of the following courses as restricted electives:
   
   **Marketing:**
   - MGMT*3200 [0.50] Marketing Management
   - MGMT*3020 [0.50] Consumer Behaviour
   - MGMT*3000 [0.50] Advanced Marketing
   - MGMT*3040 [0.50] Business and Consumer Law
   - MGMT*3620 [0.50] Marketing Communications

5. Students must successfully complete a minimum of 6.00 credits at the 3000 level or higher, of which at least 2.00 credits must be at the 4000 level.
Bachelor of Commerce (B.Comm.)

The University of Guelph offers an eight semester (20.00 credits) honours program leading to a Bachelor of Commerce degree (B.Comm.). The normal course load is 2.50 credits per semester for a full-time student. The program is of an interdisciplinary nature and designed to give students a sound professional management education with a focus on specific industry sectors or management functions which prepare the graduates for positions of responsibility in particular areas of management and business.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study.

In their first semester, students may be admitted to either one of nine specialized majors or the undeclared (unspecialized) major. Students in the unspecified first year, must declare a specialized major in semester two in order to gain access to required courses in semester three.

Bachelor of Commerce Majors

Undeclared (only available in semesters one and two)

- Accounting
- Food and Agricultural Business*
- Hotel and Food Administration*
- Human Resources Management
- Management Economics and Finance*
- Marketing Management*
- Public Management*
- Real Estate and Housing*
- Tourism Management

Co-operative Education is available in the majors denoted by an asterisk (*).

In addition to specializing in a major area of study, the B.Comm. core ensures that each major also provides a comprehensive commerce education to all students in the program.

The B.Comm. Core includes:

### Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON*1050</td>
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</tr>
<tr>
<td>ECON*1100</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1030</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>0.50</td>
</tr>
<tr>
<td>MGMT*1000</td>
<td>0.50</td>
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</tbody>
</table>

**Introductory Microeconomics**
**Introductory Macroeconomics**
**Business Mathematics**
**Introductory Marketing**
**Introduction to Business**

### Year 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACCT*2220</td>
<td>0.50</td>
</tr>
<tr>
<td>ACCT*2230</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2560</td>
<td>0.50</td>
</tr>
<tr>
<td>HROB*2100</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**Financial Accounting (maybe taken in Year 1)**
**Management Accounting**
**Theory of Finance**
**Managing People in Organizations**

### Year 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT*3320</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Financial Management**

### Year 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT*4000</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**Strategic Management**

Liberal Education Requirement

Other requirements are accommodated by specialized courses within the major or through specific courses chosen by the major from those available on campus.

The following core areas are covered through a choice of courses:

- Consumer Behaviour
- Information Management
- Law
- Operations
- Statistics

### Program Information

**Academic Counselling**

Students are urged to seek the assistance of the counsellors in the B.Comm. Counselling Office regarding their program and academic regulations, course selection issues, services and resources, and when they are experiencing difficulties that affect their academic progress.

**Departmental Advising**

On entering the program, all students are assigned to a departmental Faculty Advisor by major. Students should seek the advice of the Faculty Advisor when they have questions or concerns about courses and academic requirements for their program/major. The Faculty Advisor is also knowledgeable about career opportunities which relate to a student’s specific major. The list of Faculty Advisors is available on the Undergraduate Academic Information Centre website: [http://www.uoguelph.ca/uaic/students_advisors.shtml](http://www.uoguelph.ca/uaic/students_advisors.shtml) or contact the B.Comm. Counselling Office for further information.

**Special Expenses**

Expenses may include cost of field trips and supplies and, for some majors, laboratory coats and other protective clothing.

**Study at Other Universities**

Students contemplating study at another university for credit towards a Bachelor of Commerce degree at the University of Guelph should refer to the general regulations governing Letters of Permission in Section VIII - Degree Regulations and Procedures in this calendar.

Students must obtain approval for the Letter of Permission prior to undertaking studies at another institution. Approval of the request depends on good standing in the program with a minimum cumulative average of 60%.

The total limit of credits taken on a Letter of Permission is 2.50 based on the University of Guelph’s credit system.

**Study Abroad**

Global understanding and perspectives are regarded as being of central importance among the university’s learning objectives, as they are, also, in understanding the international business environment. On both of these accounts, students enrolled in the B.Comm. program are urged to participate in one of the several exchange and study abroad programs specifically designed for the Commerce program. Planning for such participation is best undertaken quite early in the course of studies. For more specific information on possible opportunities refer to Section V - International Study of the calendar or contact the B.Comm. program counsellor.

**Continuation of Studies**

Students are advised to consult the regulations for Continuation of Study within the program which are outlined in detail in Section VIII--Undergraduate Degree Regulations and Procedures

**Conditions of Graduation**

To qualify for a Bachelor of Commerce degree, the student must satisfy the following conditions:

- The student must successfully complete 1.50 credits from the Liberal Education Requirement list.
- The student must successfully complete a minimum of 20.00 approved credits, in accordance with the Schedule of Studies for the specified major, including the Liberal Education Requirement.
- Students will not be eligible to graduate while on probationary or required-to-withdraw status.

**Liberal Education Requirement**

The Liberal Education Requirement is designed to provide the student with exposure to and some understanding of a range of disciplines in the Arts, Social Sciences and Mathematical and Natural Sciences.

The Liberal Education Requirement of 3 courses (1.50 credits) must be from at least two of the following prefixes:

- ANSC Animal Science
- ANTH Anthropology
- ARTH Art History
- BIOT Biotechnology
- BIOL Biology
- BIOM Biomedical Sciences
- BOT Botany
- CHEM Chemistry
- CHIN Chinese
- CIS Computing and Information Science
- CLAS Classical Studies
- CROP Crop Science
- EDRD Environmental Design and Rural Development
- ENGL English
- ENVB Environmental Biology
- EURO European Studies
- FOOD Food Science
- FREN French Studies
- FRHD Family Relations and Human Development

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Last Revision: Oct. 19, 2012
### Liberal Education Requirement
As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

### Major

#### Semester 1
- **ECON*1050** [0.50] Introductory Microeconomics
- **MATH*1030** [0.50] Business Mathematics
- **MGMT*1000** [1.00] Introduction to Business

One of:
- **HTM*1000** [0.50] Introduction to Hospitality and Tourism Management
- **MATH*1200** [0.50] Calculus 1 *
- **POLS*1400** [0.50] Issues in Canadian Politics *
- **PSYC*1000** [0.50] Introduction to Psychology
- **REAL*1820** [0.50] Real Estate and Housing *

0.50 elective

* These courses are offered in the Fall semester only

#### Semester 2
- **ACCT*2220** [0.50] Financial Accounting

### Semester 2
- **ACCT*2240** [0.50] Applied Financial Accounting

One of:
- **STAT*2060** [0.50] Statistics for Business Decisions
- **ECON*2740** [0.50] Economic Statistics

One of:
- **CIS*1200** [0.50] Introduction to Computing
- **MCS*2020** [0.50] Marketing Information Management *

0.50 electives

* Note: Students taking courses in the CA stream may take MCS*2020 in semester 3 or 4.

#### Semester 3
- **ACCT*3330** [0.50] Intermediate Financial Accounting I
- **ECON*2560** [0.50] Theory of Finance
- **MGMT*3320** [0.50] Financial Management

0.50 electives

#### Semester 4
- **ACCT*3280** [0.50] Auditing I
- **ACCT*3340** [0.50] Intermediate Financial Accounting II
- **ACCT*3335** [0.50] Taxation

One of:
- **ECON*2310** [0.50] Intermediate Microeconomics
- **MCS*2600** [0.50] Fundamentals of Consumer Behaviour

0.50 electives

#### Semester 5
- **ACCT*3230** [0.50] Intermediate Management Accounting
- **FARE*3310** [0.50] Operations Management

0.50 electives

* Students interested in choosing the FAB Major should take FARE*1400 Economics of the Agri-Food System instead of HROB*2100.

Students leaning towards a certain major may use their electives to take courses in that area. Undeclared students are encouraged to meet with a B.Comm. program counsellor for advice on elective selection. Further information on selecting electives for the Undeclared first year can be found on the B.Comm. Program Counselling Office website: [http://www.bcomm.uoguelph.ca/undeclared.shtml](http://www.bcomm.uoguelph.ca/undeclared.shtml)

### Accounting (ACCT)

#### College of Management & Economics, Department of Business
By combining the conceptual and quantitative elements of accounting while promoting the integration of theory and practice, the accounting major provides graduates with the academic requirements for the postgraduate pursuit of a Professional Accounting designation. Students will develop the technical, analytical, evaluative and communication skills needed for a successful career in accounting and related management areas.

The program provides a strong foundation of accounting and general business knowledge while allowing significant opportunity to develop breadth and depth of knowledge in related areas of study. Course requirements for the postgraduate professional accounting designations vary.

For this major, 15.00 of the 20.00 credits are specified as core requirements and 5.00 electives (including the Liberal Education Requirements of 1.50 credits.) Students pursuing a professional accounting designation should visit the Department of Business website for links to the requirements for each designation.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study.

### Liberal Education Requirement
As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.
Modern Financial Accounting
Marketing Information Management
Cost-Benefit Analysis
Introduction to Computing
Management Accounting
Economics of the Agri-Food System
Operations Management
Introductory Mathematical Economics
Financial Management
Economic Statistics
Strategic Management
Intermediate Macroeconomics

Introduction to Econometrics
Introduction to Business
Poverty, Food & Hunger
Agriculture and Food Issues Problem Solving
Strategic Management
Food & Agri Marketing Management
Introduction to Computing
Resource Economics
Accounting Theory and Integrated Cases
Managing People in Organizations
Financial Accounting
Introductory Marketing
Introductory Microeconomics
Survey of Natural Resource Economics
Advanced Agribusiness Management

ACCT*2230 [0.50]
Semester 4
If CIS*1200 has been taken in Semester 2:
- HROB*2100 [0.50]
- ECON*2770 [0.50]
- FARE*2410 [0.50]
  0.50 electives or restricted electives

Semester 5
ECON*2560 [0.50]
ECON*3740 [0.50]
FARE*2700 [0.50]
FARE*3310 [0.50]
MGMT*3320 [0.50]

Semester 6
FARE*4240 [0.50]

Semester 7
FARE*3030 [0.50]
FARE*4370 [0.50]
MGMT*4000 [1.00]

Semester 8
HROB*3050 [0.50]
MCS*3040 [0.50]
REAL*4840 [0.50]

Restricted Electives
A minimum of 1.50 credits from the following list:
FARE*1300 [0.50]
FARE*3170 [0.50]
FARE*4210 [0.50]
FARE*4310 [0.50]
FARE*4360 [0.50]
FARE*4500 [0.50]

Food and Agricultural Business (FAB)

Department of Food, Agricultural and Resource Economics, Ontario Agricultural College

The Food and Agricultural Business major is concerned with the management problems of business firms and prepares students for a range of management careers in agribusiness throughout the food chain.

Graduates of the Food and Agricultural Business program meet the educational requirements for membership in the Ontario Institute of Agrologists. The Ontario Institute of Agrologists is the professional organization in agriculture in the Province of Ontario. Professional institutes in the various provinces in Canada and the scientific societies in agriculture collectively comprise the Agricultural Institute of Canada. The program has been fully accredited by the Agricultural Institute of Canada.

Included in the core requirements, the Food and Agricultural Business major requires students to select a stream of Restricted Elective courses that will complement their studies. The agribusiness stream is designed for students more interested in developing and enhancing their knowledge and understanding of agribusiness. The agricultural science stream emphasizes the production aspects of farming and involves biology and either animal or plant systems.

The major is administered by the Department of Food, Agricultural and Resource Economics in the Ontario Agricultural College and students are urged to consult the departmental advisor. For this major, 16.50 of the 20.00 credits are specified as core requirements, 1.50 are restricted electives, 1.50 are Liberal Education electives, and 0.50 are free electives.

Liberal Education Requirement

As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar. Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Students interested in earning the Certificate in Leadership can use a combination of restricted, Liberal Education, and free electives to do so. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements.

Major

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
MATH*1030 [0.50] Business Mathematics
MCS*1000 [0.50] Introductory Marketing
MGMT*1000 [1.00] Introduction to Business

Semester 2
ACCT*2220 [0.50] Financial Accounting
ECON*1100 [0.50] Introduction to Business
FARE*1400 [1.00] Economics of the Agri-Food System
One of:
- CJS*1200 [0.50] Introduction to Computing
- FARE*1300 [0.50] Poverty, Food & Hunger

Semester 3
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2740 [0.50] Economic Statistics
HROB*2100 [1.00] Managing People in Organizations
If CJS*1200 has not been taken in Semester 2:
- One of:
  - CJS*1200 [0.50] Introduction to Computing
  - MCS*2020 [0.50] Marketing Information Management
If CJS*1200 has been taken in Semester 2:
0.50 electives or restricted electives

Semester 4
ACCT*2230 [0.50] Management Accounting
ECON*2410 [0.50] Intermediate Macroeconomics

ECON*2770 [0.50]
FARE*2410 [0.50]

0.50 electives or restricted electives

Semester 5
ECON*2560 [0.50]
ECON*3740 [0.50]
FARE*2700 [0.50]
FARE*3310 [0.50]
MGMT*3320 [0.50]

Semester 6
FARE*4240 [0.50]

Semester 7
FARE*3030 [0.50]
FARE*4370 [0.50]
MGMT*4000 [1.00]

Semester 8
HROB*3050 [0.50]
MCS*3040 [0.50]
REAL*4840 [0.50]

Restricted Electives
A minimum of 1.50 credits from the following list:
FARE*1300 [0.50]
FARE*3170 [0.50]
FARE*4210 [0.50]
FARE*4310 [0.50]
FARE*4360 [0.50]
FARE*4500 [0.50]

Food and Agricultural Business (Co-op) (FAB:C)

Department of Food, Agricultural and Resource Economics, Ontario Agricultural College

A principal aim of the Co-op program in Food and Agricultural Business is to facilitate the transition of students from academic studies to a professional career by enhancing the integration of theory and practice.

The Co-op program in Food and Agricultural Business is a five year program, including 5 work terms. Although the schedule includes 5 work terms, students have the option to complete only 4 of the 5 work terms, but must graduate with a Fall, Winter and Summer work term. Please refer to the Co-operative Education program policy with respect to adjusting the schedule listed below.

In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education program policy with respect to work term performance grading and work term report grading.

For additional program information students should consult with their Co-op coordinator and Co-op Faculty Advisor, listed on the Co-operative Education & Career Services web site.

The major is administered by the Department of Food, Agricultural and Resource Economics in the Ontario Agricultural College and students are urged to consult the departmental advisor. For this major, 16.50 of the 20.00 credits are specified as core requirements, 1.50 are restricted electives, 1.50 are Liberal Education electives, and 0.50 are free electives.

Liberal Education Requirement

As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar. Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Students interested in earning the Certificate in Leadership can use a combination of restricted, Liberal Education, and free electives to do so. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements.

Major

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
MATH*1030 [0.50] Business Mathematics
MCS*1000 [0.50] Introductory Marketing
MGMT*1000 [1.00] Introduction to Business

Semester 2
ACCT*2220 [0.50] Financial Accounting
ECON*1100 [0.50] Introduction to Business
FARE*1400 [1.00] Economics of the Agri-Food System
One of:
- CJS*1200 [0.50] Introduction to Computing
- FARE*1300 [0.50] Poverty, Food & Hunger

Semester 3
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2740 [0.50] Economic Statistics
HROB*2100 [1.00] Managing People in Organizations
If CJS*1200 has not been taken in Semester 2:
- One of:
  - CJS*1200 [0.50] Introduction to Computing
  - MCS*2020 [0.50] Marketing Information Management
If CJS*1200 has been taken in Semester 2:
0.50 electives or restricted electives

Semester 4
ACCT*2230 [0.50] Management Accounting
ECON*2410 [0.50] Intermediate Macroeconomics

ECON*2770 [0.50]
FARE*2410 [0.50]

0.50 electives or restricted electives

Semester 5
ECON*2560 [0.50] Theory of Finance
ECON*3740 [0.50] Introduction to Econometrics
FARE*2700 [0.50] Survey of Natural Resource Economics
FARE*3310 [0.50] Operations Management
MGMT*3320 [0.50] Financial Management

Semester 6
FARE*4240 [0.50] Futures and Options Markets

Semester 7
FARE*3030 [0.50] The Firm and Markets
FARE*4370 [0.50] Food & Agri Marketing Management
MGMT*4000 [1.00] Strategic Management

Semester 8
HROB*3050 [0.50] Employment Law
MCS*3040 [0.50] Business and Consumer Law
REAL*4840 [0.50] Housing and Real Estate Law
Semester 2
ACCT*2220 [0.50] Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
FARE*1400 [1.00] Economics of the Agri-Food System
One of:
CIS*1200 [0.50] Introduction to Computing
FARE*1300 [0.50] Poverty, Food & Hunger
Semester 3 - Fall
COOP*1100 [0.00] Introduction to Co-operative Education
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2740 [0.50] Economic Statistics
HROB*2100 [1.00] Managing People in Organizations
If CIS*1200 has not been taken in Semester 2:
One of:
CIS*1200 [0.50] Introduction to Computing
MCS*2020 [0.50] Marketing Information Management
If CIS*1200 has been taken in Semester 2:
0.50 electives or restricted electives
Semester 4 - Winter
ACCT*2230 [0.50] Management Accounting
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*2770 [0.50] Introductory Mathematical Economics
FARE*2410 [0.50] Agrifood Markets and Policy
0.50 electives or restricted electives
Summer Semester
COOP*1000 [0.00] Co-op Work Term I
Fall Semester
COOP*2000 [0.00] Co-op Work Term II
(Eight month work term Summer/Fall)
Semester 5 - Winter
ECON*2560 [0.50] Theory of Finance
ECON*3740 [0.50] Introduction to Econometrics
FARE*2700 [0.50] Survey of Natural Resource Economics
FARE*3310 [0.50] Operations Management
MGMT*3320 [0.50] Financial Management
Summer Semester
COOP*3000 [0.00] Co-op Work Term III
Semester 6 - Fall
FARE*4240 [0.50] Futures and Options Markets
2.00 electives or restricted electives
Winter Semester
COOP*4000 [0.00] Co-op Work Term IV
Summer Semester
COOP*5000 [0.00] Co-op Work Term V
(Eight month work term Winter/Summer)
Semester 7 - Fall
FARE*3030 [0.50] The Firm and Markets
FARE*4370 [0.50] Food & Agri Marketing Management
MGMT*4000 [1.00] Strategic Management
One of:
HROB*3050 [0.50] Employment Law
MCS*3040 [0.50] Business and Consumer Law
REAL*4840 [0.50] Housing and Real Estate Law
Semester 8 - Winter
AGRI*4600 [1.00] Agriculture and Food Issues Problem Solving
FARE*4000 [0.50] Agricultural and Food Policy
FARE*4220 [0.50] Advanced Agribusiness Management
0.50 electives or restricted electives
Restricted Electives
A minimum of 1.50 credits from the following list:
FARE*1300 [0.50] Poverty, Food & Hunger
FARE*3170 [0.50] Cost-Benefit Analysis
FARE*4210 [0.50] World Agriculture and Economic Development
FARE*4310 [0.50] Resource Economics
FARE*4360 [0.50] Marketing Research
FARE*4500 [0.50] Decision Science
Hotel and Food Administration (Hafa)
School of Hospitality and Tourism Management, College of Management and Economics

The Hotel and Food Administration major prepares graduates to assume positions of responsibility in any aspect of the hospitality field. It includes principles of management, theories of interpersonal relations, human resources management, and communications. Distinctive courses include Hospitality Facilities Management and Design and Lodging Management. The courses in this program relate to the management of both the accommodation and food service facilities used by the public and private sector. Students may consult the Faculty Advisor or the B.Comm. Program Counsellor for additional information.

Verified work experience in the hospitality industry is required for students to be eligible for graduation.

Group work is a significant part of core credit work.

Liberal Education Requirement
As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major
For this major, 16.00 of the 20.00 credits are specified as core requirements, 2.00 are restricted electives (from List B), 1.50 are the Liberal Education Requirement and 0.50 are free electives.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Students interested in earning the Certificate in Leadership can use a combination of restricted, Liberal Education and free electives to do so. See http://www.leadershipcertificate.com/ for information about this certificate and its course requirements.

Semester 1
ECON*1050 [0.50] Introductory Macroeconomics
HTM*1000 [0.50] Introduction to Hospitality and Tourism Management
MCS*1000 [0.50] Introductory Marketing
MGMT*1000 [1.00] Introduction to Business

Semester 2
ECON*1100 [0.50] Introductory Macroeconomics
HTM*2100 [0.50] Lodging Operations
MATH*1030 [0.50] Business Mathematics

One of:
CHEM*1100 [0.50] Chemistry Today
HTM*2700 [0.50] Introductory Foods

0.50 from List B or electives

*CHEM*1100 must be taken by students without Grade 12 4U Chemistry (SCH4U). If CHEM*1100 is not required, then a total of 2.50 restricted electives are required.

Semester 3

One of:
ECON*2740 [0.50] Economic Statistics
STAT*2060 [0.50] Statistics for Business Decisions

2.00 from List A or List B or electives

Semester 4
2.50 from List A or List B or electives

Semester 5
HTM*3030 [0.50] Beverage Management

2.00 from List A or List B or electives

Semester 6
2.50 from List A or List B or electives

Semester 7
HTM*3060 [0.50] Lodging Management

2.00 from List A or List B or electives

Semester 8
2.50 from List A or List B or electives

List A - Further Required Courses
The following 10.00 credits are also required. Further details on the scheduling of courses will be provided in writing prior to each course selection period by the School’s faculty advisor.

Semester 2 or 3
HTM*2700 [0.50] Introductory Foods

Semester 3 or 4
ACCT*2220 [0.50] Financial Accounting
HROB*2100 [1.00] Managing People in Organizations
HTM*2010 [0.50] Hospitality and Tourism Business Communications
HTM*2030 [0.50] Control Systems in the Hospitality Industry
MCS*2020 [0.50] Marketing Information Management
MCS*3040 [0.50] Business and Consumer Law

Semester 4 or 5
ACCT*2230 [0.50] Management Accounting

The Hotel and Food Administration major prepares graduates to assume positions of responsibility in any aspect of the hospitality field. It includes principles of management, theories of interpersonal relations, human resources management, and communications. Distinctive courses include Hospitality Facilities Management and Design and Lodging Management. The courses in this program relate to the management of both the accommodation and food service facilities used by the public and private sector. Students may consult the Faculty Advisor or the B.Comm. Program Counsellor for additional information.

Verified work experience in the hospitality industry is required for students to be eligible for graduation.

Group work is a significant part of core credit work.

Liberal Education Requirement
As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major
For this major, 16.00 of the 20.00 credits are specified as core requirements, 2.00 are restricted electives (from List B), 1.50 are the Liberal Education Requirement and 0.50 are free electives.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Students interested in earning the Certificate in Leadership can use a combination of restricted, Liberal Education and free electives to do so. See http://www.leadershipcertificate.com/ for information about this certificate and its course requirements.

Semester 1
ECON*1050 [0.50] Introductory Macroeconomics
HTM*1000 [0.50] Introduction to Hospitality and Tourism Management
MCS*1000 [0.50] Introductory Marketing
MGMT*1000 [1.00] Introduction to Business

Semester 2
ECON*1100 [0.50] Introductory Macroeconomics
HTM*2100 [0.50] Lodging Operations
MATH*1030 [0.50] Business Mathematics

One of:
CHEM*1100 [0.50] Chemistry Today
HTM*2700 [0.50] Introductory Foods

0.50 from List B or electives

*CHEM*1100 must be taken by students without Grade 12 4U Chemistry (SCH4U). If CHEM*1100 is not required, then a total of 2.50 restricted electives are required.

Semester 3

One of:
ECON*2740 [0.50] Economic Statistics
STAT*2060 [0.50] Statistics for Business Decisions

2.00 from List A or List B or electives

Semester 4
2.50 from List A or List B or electives

Semester 5
HTM*3030 [0.50] Beverage Management

2.00 from List A or List B or electives

Semester 6
2.50 from List A or List B or electives

Semester 7
HTM*3060 [0.50] Lodging Management

2.00 from List A or List B or electives

Semester 8
2.50 from List A or List B or electives

List A - Further Required Courses
The following 10.00 credits are also required. Further details on the scheduling of courses will be provided in writing prior to each course selection period by the School’s faculty advisor.

Semester 2 or 3
HTM*2700 [0.50] Introductory Foods

Semester 3 or 4
ACCT*2220 [0.50] Financial Accounting
HROB*2100 [1.00] Managing People in Organizations
HTM*2010 [0.50] Hospitality and Tourism Business Communications
HTM*2030 [0.50] Control Systems in the Hospitality Industry
MCS*2020 [0.50] Marketing Information Management
MCS*3040 [0.50] Business and Consumer Law

Semester 4 or 5
ACCT*2230 [0.50] Management Accounting
### List B - Restricted Electives

In addition to the 16.00 required credits listed above, students must take a minimum of 2.00 restricted electives throughout the program. Students may choose to explore a variety of subjects or may choose to study an area allied to their major in some depth. Restricted electives are listed below and have been grouped in major topical areas which are related to, or an extension of, the professional interests of the major. Students may, however, choose restricted electives from any of those listed without regard to the categories, which are intended to be suggestive.

Students may select credits in any second language as restricted electives. Students without a second language are encouraged to take language courses.

#### Courses dealing with the social and economic environment of business:
- ECON*2310 [0.50] Intermediate Microeconomics
- ECON*2410 [0.50] Intermediate Macroeconomics
- ECON*3520 [0.50] Labour Economics
- ECON*3660 [0.50] Economics of Equity Markets
- ECON*3760 [0.50] Fundamentals of Derivatives
- ECON*3860 [0.50] International Finance
- ECON*3960 [0.50] Money, Credit and the Financial System
- PHIL*1010 [0.50] Introductory Philosophy: Social and Political Issues
- PHIL*2600 [0.50] Business and Professional Ethics
- POLS*1400 [0.50] Issues in Canadian Politics

#### Courses for those interested in developing hospitality related real estate:
- REAL*1820 [0.50] Real Estate and Housing
- REAL*2820 [0.50] Real Estate Finance
- REAL*3810 [0.50] Real Estate Market Analysis
- REAL*3890 [0.50] Property Management
- REAL*4820 [0.50] Real Estate Appraisal
- REAL*4840 [0.50] Housing and Real Estate Law

#### Courses dealing with human behaviour particularly as related to work and work groups:
- ANTH*1150 [0.50] Introduction to Anthropology
- HROB*2010 [0.50] Foundations of Leadership
- HROB*3050 [0.50] Employment Law
- HROB*4010 [0.50] Leadership Capstone
- ECON*2200 [0.50] Industrial Relations
- PSYC*1000 [0.50] Introduction to Psychology
- PSYC*2310 [0.50] Introduction to Social Psychology
- SOAN*2040 [0.50] Globalization of Work and Organizations
- SOC*1100 [0.50] Sociology

#### Courses dealing with market forces and consumer behaviour:
- FARE*4360 [0.50] Marketing Research
- MCS*2600 [0.50] Fundamentals of Consumer Behaviour
- MCS*3000 [0.50] Advanced Marketing
- MCS*3010 [0.50] Quality Management
- MCS*3620 [0.50] Marketing Communications
- MCS*4400 [0.50] Pricing Management
- PSYC*1000 [0.50] Introduction to Psychology

#### Courses related to the study of tourism:
- EDRD*3500 [0.50] Recreation and Tourism Planning
- GEOG*1220 [0.50] Human Impact on the Environment
- GEOG*3490 [0.50] Tourism and Environment
- HTM*2170 [0.50] Tourism Policy, Planning and Development
- HTM*3160 [0.50] Destination Management and Marketing
- HTM*4170 [0.50] International Tourism

#### Courses relating to institutional food service management:
- CHEM*1040 [0.50] General Chemistry I
- CHEM*1050 [0.50] General Chemistry II
- FOOD*2150 [0.50] Introduction to Nutritional and Food Science
- FOOD*3700 [0.50] Sensory Evaluation of Foods
- HTM*2740 [0.50] Cultural Aspects of Food
- NUTR*1010 [0.50] Nutrition and Society
- NUTR*2050 [0.50] Family and Community Nutrition

#### Specialized courses in Hospitality and Tourism Management:
- HTM*2070 [0.50] Meetings and Convention Management
- HTM*2740 [0.50] Cultural Aspects of Food
- HTM*3150 [0.50] Experiential Learning in the Hospitality Industry
- HTM*3180 [0.50] Casino Operations Management
- HTM*3780 [0.50] Economics of Food Usage
- HTM*4050 [0.50] Wine and Oenology
- HTM*4110 [0.50] Advanced Restaurant Operations
- HTM*4130 [0.50] Current Management Topics
- HTM*4250 [0.50] Hospitality Revenue Management
- HTM*4500 [0.50] Special Study in Hospitality and Tourism

#### Courses related to accounting and administration:
- ACCT*2240 [0.50] Applied Financial Accounting
- ACCT*3230 [0.50] Intermediate Management Accounting
- ACCT*3280 [0.50] Auditing I
- ACCT*3330 [0.50] Intermediate Financial Accounting I
- ACCT*3340 [0.50] Intermediate Financial Accounting II
- ACCT*3350 [0.50] Taxation
- ACCT*4220 [0.50] Advanced Financial Accounting
- ACCT*4230 [0.50] Advanced Management Accounting
- MGMT*4260 [0.50] International Business
- MCS*2100 [0.50] Insurance and Personal Financial Management

#### Courses to prepare for The Certified Human Resource Professional (CHRP) designation:
- ECON*2200 [0.50] Industrial Relations
- HROB*3010 [0.50] Compensation Systems
- HROB*3030 [0.50] Occupational Health and Safety
- HROB*3070 [0.50] Recruitment and Selection
- HROB*3090 [0.50] Training and Development
- HROB*4060 [0.50] Human Resources Planning

#### Other restricted electives:
- CHS*1000 [0.50] Introduction to Computer Applications
- EDRD*3140 [0.50] Organizational Communication
- EDRD*3160 [0.50] International Communication
- ENGL*1200 [0.50] Reading the Contemporary World
- ENGL*1410 [0.50] Major Writers
- MCS*3010 [0.50] Quality Management
- MGMT*4050 [0.50] Applied Community Project I
- MGMT*4060 [0.50] Applied Community Project II
- PHIL*2100 [0.50] Critical Thinking

#### Electives and Liberal Education Requirement

In addition to the 16.00 required credits and the 2.00 restricted electives, the student has 2.00 electives throughout the program. These electives must include 1.50 credits toward the B.Comm. Liberal Education Requirement.

### Hotel and Food Administration (Co-op) (HAFA:C)

#### School of Hospitality and Tourism Management, College of Management and Economics

The principal aim of the Hotel and Food Administration Co-op program is to facilitate the transition of students from academic studies to a professional work life by enhancing the integration of theory and practice. Students may consult the departmental Co-op Advisor or the B.Comm. Program Counsellor for additional information. The co-op work program consists of one twelve-month period. The work semester begins at the end of the second year and extends from May to April. The co-op program is completed over a 5 year period.

#### Liberal Education Requirement

As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

#### Major

The academic program consists of 20.00 credits, 16.50 of which are specified as core requirements, 2.00 as restricted electives, and 1.50 as the Liberal Education Requirement. Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Students interested in earning the Certificate in Leadership can use a combination of restricted, Liberal Education and free electives to do so. See [leadershipcertificate.com](http://leadershipcertificate.com) for information about this certificate and its course requirements.

#### Semester 1 - Fall

- ECON*1050 [0.50] Introductory Microeconomics
- HTM*1000 [0.50] Introduction to Hospitality and Tourism Management
- MGMT*1000 [1.00] Introduction to Business

#### Semester 2 - Winter

- ECON*1100 [0.50] Introductory Macroeconomics
- HTM*2100 [0.50] Lodging Operations
- MATH*1030 [0.50] Business Mathematics
One of:* CHEM*1100 [0.50] Chemistry Today HTM*2700 [0.50] Introductory Foods 0.50 from List B or electives
*CHEM*1100 must be taken by students without Grade 12 4U Chemistry (SCH4U). If CHEM*1100 is not required, then a total of 2.50 restricted electives are required.

Semester 3 - Fall
COOP*1100 [0.00] Introduction to Co-operative Education
One of:
ECON*2740 [0.50] Economic Statistics
STAT*2060 [0.50] Statistics for Business Decisions
2.00 from List A or List B or electives

Semester 4 - Winter
2.50 from List A or List B or electives

Summer Semester
COOP*1000 [0.00] Co-op Work Term I

Fall Semester
COOP*2000 [0.00] Co-op Work Term II
COOP*3000 [0.00] Co-op Work Term III

Winter Semester
HTM*3030 [0.50] Beverage Management
2.00 from List A or List B or electives

Semester 5 - Fall
HTM*3060 [0.50] Lodging Management
HTM*4300 [0.50] Co-operative Education Seminar
1.50 from List A or List B or electives

Semester 6 - Winter
2.50 from List A or List B or electives

Semester 7 - Fall
HTM*3060 [0.50] Lodging Management
HTM*4300 [0.50] Co-operative Education Seminar
1.50 from List A or List B or electives

Semester 8 - Winter
2.50 from List A or List B or electives

Note: For courses included in List A or List B refer to the regular Hotel and Food Administration major.

Human Resources Management (HRM)

Department of Business, College of Management and Economics

The Human Resource Management (HRM) major provides an academic foundation to prepare students for careers as Human Resources practitioners, and for potential certification by the Human Resources Professionals Association (HRPA) as a Certified Human Resources Professional (CHRP). The HRM major meets the academic requirements for all of the nine Compulsory Subjects as set out by the HRPA. In addition, students will also have the opportunity to complete the Leadership Certificate.

The HRM major provides students with a traditional business degree with a special emphasis on people within the workplace. HRM related classes extend beyond the traditional lecture based format to include community based group projects, guest lecturers, in-class simulations and case-based learning to help you link academic expertise and theory with industry practice. Experiential learning is an integral part of the major, and occurs through the integration of industry examples in the classroom, and a required applied research course, where students conduct group projects in workplace settings under the direction of a faculty member. Our faculty are highly skilled and committed educators who encourage students to become actively involved in their own education, both within and outside the classroom. In addition, the Human Resources Management Student Association (HRMSA) is active in providing access to HRPA Information, networking events, leadership conferences, Excalibur Human Resource Case Competition, careers night, guest speakers and social events to help students build relationships with others, faculty, and the business community.

Graduates of this major will leave the University of Guelph equipped with an undergraduate degree as a prepared individual ready to meet the human resources needs of the future. Recent alumni can be found in a variety of HRM positions — both general (e.g., HR manager) and specialist (e.g., recruitment, compensation and benefits, training and development). Some students also choose to pursue further education such as MBA and Law degrees.

Liberal Education Requirement

As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major

For this major, 16.00 of the 20.00 credits are specified as core requirements and the remaining 4.00 as electives (including 1.50 in the Liberal Education Requirement).

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Students interested in earning the Certificate in Leadership can use a combination of restricted, Liberal Education and free electives to do so. See http://www.leadershipcertificate.com/ for information about this certificate and its course requirements.

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
MCS*1000 [0.50] Introductory Marketing
MGMT*1000 [1.00] Introduction to Business
0.50 electives

Semester 2
ECON*1100 [0.50] Introductory Macroeconomics
HROB*2100 [1.00] Managing People in Organizations
MATH*1030 [0.50] Business Mathematics
0.50 electives

Semester 3
ACCT*2220 [0.50] Financial Accounting
ECON*2200 [0.50] Industrial Relations
One of:
ECON*2310 [0.50] Intermediate Microeconomics
MCS*2600 [0.50] Fundamentals of Consumer Behaviour
One of:
ECON*2740 [0.50] Economic Statistics
STAT*2060 [0.50] Statistics for Business Decisions
0.50 electives

Semester 4
ACCT*2230 [0.50] Management Accounting
CIS*1200 [0.50] Introduction to Computing
HROB*2010 [0.50] Foundations of Leadership
1.00 electives

Semester 5
ECON*2560 [0.50] Theory of Finance
HROB*3010 [0.50] Compensation Systems
HROB*3050 [0.50] Employment Law
HROB*3070 [0.50] Recruitment and Selection
0.50 electives

Semester 6
HROB*3030 [0.50] Occupational Health and Safety
HROB*3090 [0.50] Training and Development
HROB*3100 [0.50] Managerial Skills
FARE*3310 [0.50] Operations Management
MGMT*3320 [0.50] Financial Management

Semester 7
HROB*4100 [1.00] Applied Research in Human Resources Management
MGMT*4000 [1.00] Strategic Management
0.50 electives

Semester 8
HROB*4000 [1.00] Strategic Human Resource Management
HROB*4060 [0.50] Human Resources Planning
MGMT*3020 [0.50] Corporate Social Responsibility
0.50 electives

Management Economics and Finance (MEF)

Department of Economics and Finance, College of Management & Economics

The Management Economics and Finance major is designed to offer students an appreciation of business and economic problems particularly in the area of finance.

The major provides a suitable education for a career in the business world or in the public service. It also constitutes a useful preparation for more advanced studies, including graduate studies in Economics, Business Administration, Accounting, Industrial Relations, Law, and Public Policy. The major is administered by the Department of Economics and Finance and students are urged to consult the faculty advisor.

For this major, 11.00 credits are specified, 5.50 are restricted electives in a required area of emphasis and 3.50 are electives. (1.50 Liberal Education Requirement; 2.00 free electives).

Liberal Education Requirement

As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major

For this major, 16.00 of the 20.00 credits are specified as core requirements and the remaining 4.00 as electives (including 1.50 in the Liberal Education Requirement).
Major

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
MATH*1030 [0.50] Business Mathematics
MGMT*1000 [1.00] Introduction to Business
One of:
MATH*1200 [0.50] Calculus I
MCS*1000 [0.50] Introductory Marketing
0.50 electives
Note: MATH*1200 is required for the Finance Area of Emphasis. MCS*1000 is a required course that should be completed by semester 4.

Semester 2
ACCT*2220 [0.50] Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
HROB*2100 [1.00] Managing People in Organizations
One of:
MATH*1210 [0.50] Calculus II
MCS*1000 [0.50] Introductory Marketing
0.50 electives

Semester 3
ACCT*2230 [0.50] Management Accounting
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2740 [0.50] Economic Statistics
ECON*2770 [0.50] Introductory Mathematical Economics
One of:
CIS*1200 [0.50] Introduction to Computing
CIS*1500 [0.50] Introduction to Programming
MCS*2020 [0.50] Marketing Information Management
Note: Students who wish to take the Statistics courses listed under the Finance Area of Emphasis may select STAT*2040 in place of ECON*2740.

Semester 4
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*2560 [0.50] Theory of Finance
MCS*3040 [0.50] Business and Consumer Law *
MGMT*3320 [0.50] Financial Management
One of:
MCS*1000 [0.50] Introductory Marketing (if not already taken)
0.50 electives or restricted electives in an area of emphasis
*Note: Students may select HROB*3050 or REAL*4840 in place of MCS*3040. Both are Fall semester courses and can be completed in any Fall semester, provided the prerequisites are completed.

Semester 5
ECON*3740 [0.50] Introduction to Econometrics
2.00 electives or restricted electives
Note: ECON*3710 is required for the Finance Area of Emphasis.

Semester 6
One of:
FARE*3310 [0.50] Operations Management
REAL*3890 [0.50] Property Management
2.00 electives or restricted electives
Note: Students may select FARE*4500 in place of FARE*3310 or REAL*3890. It is a Fall semester course available in Semester 7.

Semester 7
2.50 electives or restricted electives

Semester 8
MGMT*4000 [1.00] Strategic Management
1.50 electives or restricted electives

Areas of Emphasis
Students choose either Finance or Management as an area of emphasis in the Management and Economics major. This choice should be made by semester 4. See the Economics departmental advisor to declare an area of emphasis.

FINANCE Area of Emphasis
ECON*3710 [0.50] Advanced Microeconomics
ECON*4560 [0.50] Advanced Topics in Finance
1.50 credits from the following Finance courses:
ECON*3660 [0.50] Economics of Equity Markets
ECON*3760 [0.50] Fundamentals of Derivatives **
ECON*3860 [0.50] International Finance
ECON*3960 [0.50] Money, Credit and the Financial System
** Note that FARE*4240 may be substituted for this course.
One of:
ECON*3100 [0.50] Game Theory
ECON*3810 [0.50] Advanced Macroeconomics
ECON*4700 [0.50] Advanced Mathematical Economics
1.00 Economics credits at the 3000 or 4000 level
In addition to the required credits listed above, students must take a minimum of 1.5 credits in restricted electives. Restricted electives are listed below and have been grouped in major topical areas which are related to, or are an extension of, the professional interests of the major. Students may, however, choose restricted electives from any of those listed without regard to the categories, which are intended to be suggestive.

Courses toward a professional designation as a Certified Financial Analyst (CFA)
ACCT*3330 [0.50] Intermediate Financial Accounting I
ECON*4400 [0.50] Economics of Organizations and Corporate Governance
ECON*4660 [0.50] Financial Markets Risk Management
ECON*4750 [0.50] Topics in Public Economics
ECON*4760 [0.50] Topics in Monetary Economics
ECON*4780 [0.50] Topics in Industrial Organization
ECON*4800 [0.50] Competitiveness and Strategic Advantage
ECON*4880 [0.50] Topics in International Economics

Courses in Quantitative Finance
ECON*4640 [0.50] Applied Econometrics I
ECON*4840 [0.50] Applied Econometrics II
MATH*2160 [0.50] Linear Algebra I
STAT*3100 [0.50] Introductory Mathematical Statistics I
STAT*3110 [0.50] Introductory Mathematical Statistics II

Courses in preparation for post-graduate work in Economics (MA)
ECON*4640 [0.50] Applied Econometrics I
ECON*4710 [0.50] Advanced Topics in Microeconomics
ECON*4810 [0.50] Advanced Topics in Macroeconomics

MANAGEMENT Area of Emphasis
1.50 credits from the following Finance courses:
ECON*3660 [0.50] Economics of Equity Markets
ECON*3760 [0.50] Fundamentals of Derivatives **
ECON*3860 [0.50] International Finance
ECON*3960 [0.50] Money, Credit and the Financial System
** Note that FARE*4240 may be substituted for this course.
2.50 additional credits in economics of which at least 0.50 must be at the 4000 level and at most 0.50*** may be at the 2000 level.
*** May be replaced with a 4000 level 0.50 credits in Accounting.
In addition to the economics credits listed above, students must take a minimum of 1.50 credits in restricted electives listed below. These courses have been grouped in major topical areas which are related to various professional interests. Students may, however, choose restricted electives from any of those listed without regard to the categories.

Courses toward a professional accounting designation such as Certified Management Accounting (CMA), Certified Accounting (CA) Courses, Certified General Accounting (CGA) Courses
Please note, course requirements for the postgraduate professional accounting designations vary. Students may consult their Faculty Advisor, the B.Comm Program counsellor or the department website: http://www.business.uoguelph.ca/accounting.shtml for additional information.

COURSES TO COMPLETE A POST-GRADUATE PROGRAM IN BUSINESS-RELATED AREAS:

ACCT*2240 [0.50] Applied Financial Accounting
ACCT*3230 [0.50] Intermediate Management Accounting
ACCT*3320 [0.50] Auditing I
ACCT*3330 [0.50] Intermediate Financial Accounting I
ACCT*3340 [0.50] Intermediate Financial Accounting II
ACCT*3350 [0.50] Taxation
ACCT*4220 [0.50] Advanced Financial Accounting
ACCT*4230 [0.50] Advanced Management Accounting
ACCT*4240 [1.00] Accounting Theory and Integrated Cases
ACCT*4270 [0.50] Auditing II
ACCT*4290 [0.50] Auditing III
ACCT*4350 [0.50] Income Taxation II

Courses to prepare for the Certified Human Resource Professional (CHRP) designation:
(see http://www.uoguelph.ca/business/academic-advisor-careers-chrp.shtml for more information)
ECON*2200 [0.50] Industrial Relations
HROB*3010 [0.50] Compensation Systems
HROB*3030 [0.50] Occupational Health and Safety
HROB*3090 [0.50] Training and Development
HROB*4060 [0.50] Human Resources Planning

Courses to prepare for a post-graduate program in Industrial Relations:
ECON*2200 [0.50] Industrial Relations
ECON*3520 [0.50] Labour Economics
ECON*3620 [0.50] International Trade
ECON*4780 [0.50] Topics in Labour Market Theory
HROB*3010 [0.50] Compensation Systems
HROB*3030 [0.50] Occupational Health and Safety
HROB*3070 [0.50] Recruitment and Selection

Visit the departmental website for more information.
Courses toward the Leadership Certificate:
(see http://www.leadershipcertificate.com/ for more information)
HROB*2010 [0.50] Foundations of Leadership
HROB*4010 [0.50] Leadership Capstone
HROB*4030 [0.50] Advanced Topics In Human Resource Management
POLSC*2250 [0.50] Public Administration and Governance
POLSC*3440 [0.50] Corruption, Scandal and Political Ethics

Courses in Public Administration:
ECON*3610 [0.50] Public Economics
POLSC*2250 [0.50] Public Administration and Governance
POLSC*2300 [0.50] Canadian Government and Politics
POLSC*3210 [0.50] The Constitution and Canadian Federalism
POLSC*3250 [0.50] Public Policy: Challenges and Prospects
POLSC*3270 [0.50] Local Government in Ontario
POLSC*3470 [0.50] Business-Government Relations in Canada

Courses in Real Estate and Housing:
ECON*3500 [0.50] Urban Economics **
REAL*1820 [0.50] Real Estate and Housing
REAL*2820 [0.50] Real Estate Finance
REAL*3890 [0.50] Property Management
REAL*4820 [0.50] Real Estate Appraisal **

** These courses count towards the Post Graduate Valuation Certificate offered by UBC, part of the requirements to obtain an Accredited Appraiser Canadian Institute designation

Courses in Corporate Social Responsibility:
BUS*4550 [0.50] Applied Business Project I
BUS*4560 [0.50] Applied Business Project II
ECON*2650 [0.50] Introductory Development Economics
ECON*3300 [0.50] Economics of Health and the Workplace
ECON*4930 [0.50] Environmental Economics
HROB*3030 [0.50] Occupational Health and Safety
REAL*2850 [0.50] Service Learning in Housing
MGMT*3020 [0.50] Corporate Social Responsibility
MGMT*4050 [0.50] Applied Community Project I
MGMT*4060 [0.50] Applied Community Project II

Courses in Marketing:
MCS*2600 [0.50] Fundamentals of Consumer Behaviour
MCS*3000 [0.50] Advanced Marketing
MCS*3010 [0.50] Quality Management
MCS*3620 [0.50] Marketing Communications
MCS*4400 [0.50] Pricing Management

Courses in Food and Agribusiness:
FARE*2410 [0.50] Agrifood Markets and Policy
FARE*3300 [0.50] The Firm and Markets
FARE*3170 [0.50] Cost-Benefit Analysis
FARE*4000 [0.50] Agricultural and Food Policy
FARE*4220 [0.50] Advanced Agribusiness Management

Management Economics and Finance (Co-op) (MEF:C)

Department of Economics and Finance, College of Management & Economics
A principal aim of the Co-op program in Management Economics and Finance is to facilitate the transition of students from academic studies to a professional career by enhancing the integration of theory and practice.

The Co-op program in Management Economics and Finance is a five year program including 7 work terms. Although the schedule includes 5 work terms, students have the option to complete only 4 or 5 work terms, but must graduate with a Fall, Winter, and Summer work term. Please refer to the Co-operative Education program policy with respect to adjusting the schedule listed below.

In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education program policy with respect to work term performance grading and work term report grading.

For additional program information students should consult with their Co-op coordinator and Co-op Faculty Advisor, listed on the Co-operative Education & Career Services web site.

For this major, 11.00 credits are specified, 5.50 are restricted electives in a required Area of Emphasis and 3.50 are electives (1.50 Liberal Education Requirement; 2.00 free electives).

Liberal Education Requirement
As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Students may use their restricted and free electives towards a professional designation under one of the areas of emphasis.

Major
Semester 1 - Fall
ECON*1050 [0.50] Introductory Microeconomics
MATH*1030 [0.50] Business Mathematics
MGMT*1000 [1.00] Introduction to Business
One of:
  MATH*1200 [0.50] Calculus I
  MCS*1000 [0.50] Introductory Marketing

Note: MATH*1200 is required for the Finance Area of Emphasis. MCS*1000 is a required course that should be completed by semester 4.

Semester 2 - Winter
ACCT*2220 [0.50] Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
HROB*2100 [1.00] Managing People in Organizations
One of:
  MATH*1210 [0.50] Calculus II
  MCS*1000 [0.50] Introductory Marketing
  0.50 electives

Semester 3 - Fall
ACCT*2230 [0.50] Management Accounting
COOP*1100 [0.00] Introduction to Co-operative Education
ECON*2310 [0.50] Intermediate Macroeconomics
ECON*2740 [0.50] Economic Statistics
ECON*2770 [0.50] Introductory Mathematical Economics
One of:
  CIS*1200 [0.50] Introduction to Computing
  CIS*1500 [0.50] Introduction to Programming
  MCS*2020 [0.50] Marketing Information Management

Note: Students who wish to take the Statistics courses listed under the Finance Area of Emphasis may select STAT*2040 in place of ECON*2740.

Semester 4 - Winter
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*2560 [0.50] Theory of Finance
MCS*3040 [0.50] Business and Consumer Law *
MGMT*3320 [0.50] Financial Management
One of:
  MCS*1000 [0.50] Introductory Marketing (if not already taken)
  0.50 electives or restricted electives in an area of emphasis

* Note: Students may select HROB*3050 or REAL*4840 in place of MCS*3040. Both are Fall semester courses and can be completed in any Fall semester, provided the prerequisites are completed.

Summer Semester
COOP*1000 [0.00] Co-op Work Term I

Fall Semester
COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter
ECON*3740 [0.50] Introduction to Econometrics
One of:
  FARE*3310 [0.50] Operations Management
  FARE*4500 [0.50] Decision Science
  REAL*3890 [0.50] Property Management

1.50 electives or restricted electives

Note: Students may select FARE*4500 in place of FARE*3310 or REAL*3890. It is a Fall semester course.

Summer Semester
COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall
2.50 electives or restricted electives

Note: If in the Finance Area of Emphasis take ECON*3710.

Winter Semester
COOP*4000 [0.00] Co-op Work Term IV
  (Eight month work term Winter/Summer)

Summer Semester
COOP*5000 [0.00] Co-op Work Term V
  (Eight month work term Winter/Summer)

Semester 7 - Fall
2.50 electives or restricted electives

Semester 8 - Winter
MGMT*4000 [1.00] Strategic Management

Last Revision: Oct. 19, 2012
**FINANCE Area of Emphasis**

- ECON*3710 [0.50] Advanced Microeconomics
- ECON*4560 [0.50] Advanced Topics in Finance

1.50 credits from the following Finance courses:
- ECON*3660 [0.50] Economics of Equity Markets
- ECON*3760 [0.50] Fundamentals of Derivatives **
- ECON*3860 [0.50] International Finance
- ECON*3960 [0.50] Money, Credit and the Financial System
  ** Note that FARE*4240 may be substituted for this course.

One of:
- ECON*3100 [0.50] Game Theory
- ECON*3810 [0.50] Advanced Macroeconomics
- ECON*4700 [0.50] Advanced Mathematical Economics

1.00 Economics credits at the 3000 or 4000 level

In addition to the required credits listed above, students must take a minimum of 1.5 credits in restricted electives. Restricted electives are listed below and have been grouped in major topical areas which are related to, or are an extension of, the professional interests of the major. Students may, however, choose restricted electives from any of those listed without regard to the categories, which are intended to be suggestive.

**Courses toward a professional designation as a Certified Financial Analyst (CFA):**
- ACCT*3330 [0.50] Intermediate Financial Accounting I
- ECON*4400 [0.50] Economics of Organizations and Corporate Governance
- ECON*4660 [0.50] Financial Markets Risk Management
- ECON*4750 [0.50] Topics in Public Economics
- ECON*4760 [0.50] Topics in Monetary Economics
- ECON*4870 [0.50] Topics in Industrial Organization
- ECON*4880 [0.50] Competitiveness and Strategic Advantage
- ECON*4890 [0.50] Topics in International Economics

**Courses in Quantitative Finance:**
- ECON*4640 [0.50] Applied Econometrics I
- ECON*4840 [0.50] Applied Econometrics II
- MATH*2160 [0.50] Linear Algebra I
- STAT*3100 [0.50] Introductory Mathematical Statistics I
- STAT*3110 [0.50] Introductory Mathematical Statistics II

**Courses in preparation for post-graduate work in Economics (MA):**
- ECON*4640 [0.50] Applied Econometrics I
- ECON*4710 [0.50] Advanced Topics in Microeconomics
- ECON*4810 [0.50] Advanced Topics in Macroeconomics

**MANAGEMENT Area of Emphasis**

1.50 credits from the following Finance courses:
- ECON*3660 [0.50] Economics of Equity Markets
- ECON*3760 [0.50] Fundamentals of Derivatives **
- ECON*3860 [0.50] International Finance
- ECON*3960 [0.50] Money, Credit and the Financial System
  ** Note that FARE*4240 may be substituted for this course.

2.50 additional credits in economics of which at least 0.50 must be at the 4000 level and at most 0.50** may be at the 2000 level.

** May be replaced with a 4000 level 0.50 credits in Accounting.

In addition to the economics credits listed above, students must take a minimum of 1.50 credits in restricted electives listed below. These courses have been grouped in major topical areas which are related to various professional interests. Students may, however, choose restricted electives from any of those listed without regard to the categories.

**Courses toward a professional accounting designation such as Certified Management Accounting (CMA), Certified Accounting (CA) Courses, Certified General Accounting (CGA) Courses:**

Please note, course requirements for the postgraduate professional accounting designations vary. Students may consult their Faculty Advisor, the B.Comm Program counsellor or the department website: http://www.business.uoguelph.ca/accounting.shtml for additional information.

- ACCT*2240 [0.50] Applied Financial Accounting
- ACCT*3230 [0.50] Intermediate Management Accounting
- ACCT*3280 [0.50] Auditing I
- ACCT*3330 [0.50] Intermediate Financial Accounting I
- ACCT*3340 [0.50] Intermediate Financial Accounting II
- ACCT*3350 [0.50] Taxation
- ACCT*4220 [0.50] Advanced Financial Accounting
- ACCT*4230 [0.50] Advanced Management Accounting
- ACCT*4240 [1.00] Accounting Theory and Integrated Cases
- ACCT*4270 [0.50] Auditing II
- ACCT*4290 [0.50] Auditing III
- ACCT*4350 [0.50] Income Taxation II

**Courses to prepare for the Certified Human Resource Professional (CHRP) designation:**

(see http://www.uoguelph.ca/business/academic-advisor-careers-chrp.shtml for more information)

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<td>ACCT*4230</td>
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**Courses to prepare for a post-graduate program in Industrial Relations:**

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<td>HROB*4010</td>
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<td>HROB*4030</td>
<td>0.50</td>
<td>Advanced Topics in Human Resource Management</td>
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<td>POLS*2250</td>
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<td>Public Administration and Governance</td>
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<td>POLS*3440</td>
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<td>Corruption, Scandal and Political Ethics</td>
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**Courses in Public Administration:**

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<td>The Constitution and Canadian Federalism</td>
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<td>POLS*3250</td>
<td>0.50</td>
<td>Public Policy: Challenges and Prospects</td>
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<td>POLS*3270</td>
<td>0.50</td>
<td>Local Government in Ontario</td>
</tr>
<tr>
<td>POLS*3470</td>
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<td>Business-Government Relations in Canada</td>
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**Courses in Real Estate and Housing:**

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<td>ECON*3500</td>
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<td>REAL*1820</td>
<td>0.50</td>
<td>Real Estate and Housing</td>
</tr>
<tr>
<td>REAL*2820</td>
<td>0.50</td>
<td>Real Estate Finance</td>
</tr>
<tr>
<td>REAL*3890</td>
<td>0.50</td>
<td>Property Management</td>
</tr>
<tr>
<td>REAL*4820</td>
<td>0.50</td>
<td>Real Estate Appraisal **</td>
</tr>
</tbody>
</table>

**These courses count towards the Post Graduate Valuation Certificate offered by UBC, part of the requirements to obtain an Accredited Appraiser Canadian Institute designation**

**Courses in Corporate Social Responsibility:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS*4550</td>
<td>0.50</td>
<td>Applied Business Project I</td>
</tr>
<tr>
<td>BUS*4560</td>
<td>0.50</td>
<td>Applied Business Project II</td>
</tr>
<tr>
<td>ECON*2650</td>
<td>0.50</td>
<td>Introductory Development Economics</td>
</tr>
<tr>
<td>ECON*3300</td>
<td>0.50</td>
<td>Economics of Health and the Workplace</td>
</tr>
<tr>
<td>ECON*4930</td>
<td>0.50</td>
<td>Environmental Economics</td>
</tr>
<tr>
<td>HROB*3030</td>
<td>0.50</td>
<td>Occupational Health and Safety</td>
</tr>
<tr>
<td>REAL*2850</td>
<td>0.50</td>
<td>Service Learning in Housing</td>
</tr>
<tr>
<td>MGMT*3020</td>
<td>0.50</td>
<td>Corporate Social Responsibility</td>
</tr>
<tr>
<td>MGMT*4050</td>
<td>0.50</td>
<td>Applied Community Project I</td>
</tr>
<tr>
<td>MGMT*4060</td>
<td>0.50</td>
<td>Applied Community Project II</td>
</tr>
</tbody>
</table>

**Courses in Marketing:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCS*2600</td>
<td>0.50</td>
<td>Fundamentals of Consumer Behaviour</td>
</tr>
<tr>
<td>MCS*3000</td>
<td>0.50</td>
<td>Advanced Marketing</td>
</tr>
<tr>
<td>MCS*3010</td>
<td>0.50</td>
<td>Quality Management</td>
</tr>
<tr>
<td>MCS*3620</td>
<td>0.50</td>
<td>Marketing Communications</td>
</tr>
<tr>
<td>MCS*4400</td>
<td>0.50</td>
<td>Pricing Management</td>
</tr>
</tbody>
</table>

**Courses in Food and Agribusiness:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FARE*2410</td>
<td>0.50</td>
<td>Agrifood Markets and Policy</td>
</tr>
<tr>
<td>FARE*3030</td>
<td>0.50</td>
<td>The Firm and Markets</td>
</tr>
<tr>
<td>FARE*3170</td>
<td>0.50</td>
<td>Cost-Benefit Analysis</td>
</tr>
<tr>
<td>FARE*4000</td>
<td>0.50</td>
<td>Agricultural and Food Policy</td>
</tr>
<tr>
<td>FARE*4220</td>
<td>0.50</td>
<td>Advanced Agribusiness Management</td>
</tr>
</tbody>
</table>

**Marketing Management (MKMN)**

Department of Marketing and Consumer Studies, College of Management and Economics

414 X. Degree Programs, Bachelor of Commerce (B.Comm.)
The Marketing Management major is interdisciplinary, follows a liberal education philosophy, and is built on our Department's long-standing expertise in the field of consumer research. Therefore, the courses to be followed span departments and colleges across the University and are designed to support the University's 10 Learning Objectives. The Department of Marketing and Consumer Studies recognizes that we are not only responsible for preparing students for a career in marketing but for educating them so that they can be active, engaged citizens. This can only result from a balanced curriculum of marketing and liberal education courses capable of providing students with an understanding of the world they will work and live in, and the problem solving, communication, and visualization skills needed to function effectively in it. Students will gain education and skill in the management and leadership of product and services marketing in a global economy. They will be prepared to work and live effectively in today's world and to be flexible enough to pursue a variety of marketing career paths and diverse leadership roles. The major is administered by the Department of Marketing and Consumer Studies in the College of Management and Economics. Students can contact the B.Comm. Program Counsellors or a Marketing and Consumer Studies Faculty Advisor if they have questions.

Liberal Education Requirement

As part of the graduation requirement, all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major

For this major, 20.00 credits are required, of which 14.00 are specified, 2.00 are restricted electives (from lists), 1.50 are Liberal Education electives, and 2.50 are free electives. A possible program sequence is outlined below.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Examples: (1) students can use a combination of restricted, Liberal Education, and free electives to earn the Certificate in Leadership. See http://www.leadershipcertificate.com/ for information about this certificate and its course requirements; (2) students interested in languages and/or going on exchange can use their Liberal Education and free electives to study one or more of the various languages taught at the University. Note: students also can take courses of interest as electives without concern for clustering.

Semester 1 - Fall

- ECON*1050 [0.50] Introductory Microeconomics
- MGMT*1000 [1.00] Introduction to Business

Semester 2 - Winter

- ACCT*2220 [0.50] Financial Accounting
- ECON*1100 [0.50] Introductory Macroeconomics
- MCS*1000 [0.50] Introductory Marketing

Semesters 1 or 2 - Fall or Winter

- MATH*1030 [0.50] Business Mathematics
- PSYH*1000 [0.50] Introduction to Psychology
- 0.50 Marketing Environment electives (see List E1)
  - 0.50 electives

Semester 3 - Fall

- ACCT*2230 [0.50] Management Accounting
- HROB*2100 [1.00] Managing People in Organizations
- MCS*2000 [0.50] Business Communication in a Changing World

Semester 4 - Winter

One of:
- ECON*2740 [0.50] Economic Statistics
- STAT*2060 [0.50] Statistics for Business Decisions

Semesters 3 or 4 - Fall or Winter

- MCS*2020 [0.50] Marketing Information Management
- MCS*2600 [0.50] Fundamentals of Consumer Behaviour
- MCS*3040 [0.50] Business and Consumer Law
  - 0.50 History/Global Perspective electives (see List E2)
  - 0.50 electives

Semester 5 - Fall

- MCS*3030 [0.50] Research Methods

Semester 6 - Winter

- MCS*3500 [0.50] Market Analysis and Planning

Semesters 5 or 6 - Fall or Winter

- ECON*2560 [0.50] Theory of Finance
- FARE*3310 [0.50] Operations Management
- HROB*3100 [0.50] Managerial Skills
- MCS*3620 [0.50] Marketing Communications
- MGMT*3320 [0.50] Financial Management
  - 0.50 Leadership/Professionalism electives (see List E3)
  - 1.00 electives

Semesters 7 or 8 - Fall or Winter

- MCS*3600 [0.50] Consumer Information Processes
- MCS*4370 [0.50] Marketing Strategy
- MCS*4600 [0.50] International Marketing
- MGMT*4000 [1.00] Strategic Management
  - 0.50 Advanced Marketing/Capstone electives (see List E4)
  - 2.00 electives

Restricted Electives for the Marketing Management Major

The electives in the B.Comm. Marketing Management program help ensure achievement of all of the University's 10 Learning Objectives except "Numeracy". The Marketing Management program delivers substantial "Numeracy" through its required math, statistics, and economics courses as well as through emphasis on data analysis in courses such as Research Methods (MCS*3030) and Market Analysis and Planning (MCS*3500).

Substitutions for restricted electives will be allowed if a Marketing and Consumer Studies Faculty Advisor agrees that a proposed alternative is relevant to marketing in today's world and has an appropriate level of rigour.

Marketing Environment Elective - List E1

To supplement the knowledge students gain in MCS*1000 about the socio-cultural, economic, political/legal, and technological "environmental" factors that must be taken into consideration in marketing decision-making, marketing management majors must take one [0.50 credits] of:

- ANTH*1150 [0.50] Introduction to Anthropology
- ARTH*1220 [0.50] The Visual Arts Today
- EDRD*1400 [0.50] Introduction to Design
- FRHD*1010 [0.50] Human Development
- GEOG*1200 [0.50] Society and Space
- GEOG*1220 [0.50] Human Impact on the Environment
- GEOG*2510 [0.50] Canada: A Regional Synthesis
- HIST*2610 [0.50] Contemporary Canadian Issues
- NUTR*1010 [0.50] Nutrition and Society
- PHIL*2070 [0.50] Philosophy of the Environment
- POLS*1400 [0.50] Issues in Canadian Politics
- POLS*2250 [0.50] Public Administration and Governance
- POLS*2300 [0.50] Canadian Government and Politics
- SOC*1100 [0.50] Sociology

History/Global Elective - List E2

To help marketing majors develop a sense of the fundamental relativity of knowledge and understanding over time and/or to help them gain the global perspective needed in senior marketing courses, marketing management majors must take one [0.50 credits] of:

- ARTH*2490 [0.50] History of Canadian Art
- BIOL*1500 [0.50] Humans in the Natural World
- EURO*1050 [0.50] The Emergence of a United Europe
- GEOG*2030 [0.50] Environment and Development
- HIST*1150 [0.50] The Modern World
- HIST*1250 [0.50] Science and Technology in a Global Context
- HIST*2070 [0.50] World Religions in Historical Perspective
- HIST*2250 [0.50] Environment and History
- HIST*2300 [0.50] The United States Since 1776
- HIST*2510 [0.50] Modern Europe Since 1789
- HIST*2800 [0.50] The History of the Modern Family
- HIST*2910 [0.50] Modern Asia
- HIST*2930 [0.50] Women and Cultural Change
- HIST*3070 [0.50] Modern India
- HIST*3150 [0.50] History and Culture of Mexico
- ISS*2000 [0.50] Asia
- MUSC*2280 [0.50] Masterworks of Music
- POLS*1500 [0.50] World Politics
- POLS*2080 [0.50] Development and Underdevelopment
- POLS*2200 [0.50] International Relations

Leadership/Professionalism Elective - List E3

To help prepare senior marketing management majors for leadership positions in organizations, they must take one [0.50 credits] of:

- ECON*2310 [0.50] Intermediate Microeconomics
- ECON*2410 [0.50] Intermediate Macroeconomics
- EDRD*3160 [0.50] International Communication
- EDRD*4120 [0.50] Leadership Development in Small Organizations
- HROB*2100 [0.50] Foundations of Leadership
- MGMT*3080 [0.50] The Corporation and Society
- MGMT*3020 [0.50] Corporate Social Responsibility
- MGMT*4260 [0.50] International Business
- PHIL*2100 [0.50] Critical Thinking
- PHIL*2120 [0.50] Ethics
- PHIL*2600 [0.50] Business and Professional Ethics

Last Revision: Oct. 19, 2012

2012-2013 Undergraduate Calendar
Advanced Marketing Capstone Elective - List E4
To enhance their understanding of marketing in terms of theory and/or application, senior marketing management majors must take one [0.50 credits] of:

- HRB*4010 [0.50] Leadership Capstone
- MCS*3010 [0.50] Quality Management
- MCS*4040 [0.50] Management in Product Development
- MCS*4050 [0.50] The Evolution of Capitalism: A Canadian Perspective
- MCS*4100 [0.50] Entrepreneurship
- MCS*4020 [0.50] Research in Consumer Studies
- MCS*4300 [0.50] Marketing and Society
- MCS*4400 [0.50] Pricing Management
- MCS*4910 [0.50] Topics in Consumer Studies
- MCS*4920 [0.50] Topics in Consumer Studies
- MCS*4950 [0.50] Consumer Studies Practicum
- MGMT*4050 [0.50] Applied Community Project I
- MGMT*4060 [0.50] Applied Community Project II

Marketing Management (Co-op) (MKMN:C)

Department of Marketing and Consumer Studies, College of Management and Economics

The Co-op program in Marketing Management is designed to facilitate the transition of students from academic studies to a professional career by enhancing the integration of theory and practice.

The Co-op in Marketing Management is a five year program including 5 work terms. Although the recommended schedule includes 5 work terms, students have the option to complete only 4 of the 5 work terms, but must graduate with a Full, Winter, and Summer work term. Please refer to the Co-operative Education program policy with respect to adjusting the schedule listed below.

In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education program policy with respect to work term performance grading and work term report grading.

For additional program information, students should consult with the B.Comm. Program Counsellors or the MKMN Co-op Faculty Advisor.

Liberal Education Requirement
As part of the graduation requirement, all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major
For this major, 20.00 credits are required, of which 14.00 are specified, 2.00 are restricted electives (from lists), 1.50 are Liberal Education electives, and 2.50 are free electives. A possible program sequence is outlined below.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Examples: (1) students can use a combination of restricted, Liberal Education, and free electives to earn the Certificate in Leadership. See http://www.leadershipcertificate.com/ for information about this certificate and its course requirements; (2) students interested in languages and/or going on exchange can use their Liberal Education and free electives to study one or more of the various languages taught at the University. Note: students also can take courses of interest as electives without concern for clustering.

Semester 1 - Fall
- ECON*1050 [0.50] Introductory Microeconomics
- MGMT*1000 [1.00] Introduction to Business

Semester 2 - Winter
- ACCT*2220 [0.50] Financial Accounting
- ECON*1100 [0.50] Introductory Macroeconomics
- MCS*1000 [0.50] Introductory Marketing

Semesters 1 or 2 - Fall or Winter
- MATH*1030 [0.50] Business Mathematics
- PSYC*1000 [0.50] Introduction to Psychology
- 0.50 Marketing Environment electives (see List E1)
- 0.50 electives

Semester 3 - Fall
- ACCT*2230 [0.50] Management Accounting
- COOP*1100 [0.50] Introduction to Co-operative Education
- HRB*2100 [1.00] Managing People in Organizations
- MCS*2000 [0.50] Business Communication in a Changing World
- One of: ECON*2740 [0.50] Economic Statistics
- STAT*2060 [0.50] Statistics for Business Decisions

Semester 4 - Winter
- MCS*3030 [0.50] Research Methods

Semesters 3 or 4 - Fall or Winter
- MCS*2020 [0.50] Marketing Information Management
- MCS*2600 [0.50] Fundamentals of Consumer Behaviour
- MCS*3620 [0.50] Marketing Communications
- 0.50 History/Global Perspective electives (see List E2)

Summer Semester
- COOP*1000 [0.00] Co-op Work Term I

Fall Semester
- COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter
- The following 5.00 credits must be completed over semesters 5 and 6. Select 2.50 credits in Winter Semester 5 and the remaining 2.50 in Fall Semester 6:
  - ECON*2560 [0.50] Theory of Finance
  - FARE*3310 [0.50] Operations Management
  - HRB*3100 [0.50] Managerial Skills
  - MCS*3040 [0.50] Business and Consumer Law
  - MCS*3500 [0.50] Market Analysis and Planning
  - MGMT*3320 [0.50] Financial Management
  - 0.50 Leadership/Professionalism electives (see List E3)
- 1.50 electives

Summer Semester
- COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall
- Select 2.50 credits from the list below that were not taken in Winter Semester 5:
  - ECON*2560 [0.50] Theory of Finance
  - FARE*3310 [0.50] Operations Management
  - HRB*3100 [0.50] Managerial Skills
  - MCS*3040 [0.50] Business and Consumer Law
  - MCS*3500 [0.50] Market Analysis and Planning
  - MGMT*3320 [0.50] Financial Management
  - 0.50 Leadership/Professionalism electives (see List E3)
- 1.50 electives

Winter Semester
- COOP*4000 [0.00] Co-op Work Term IV
( Eight month work term Winter/Summer)

Summer Semester
- COOP*5000 [0.00] Co-op Work Term V
( Eight month work term Winter/Summer)

Semesters 7 or 8 - Fall or Winter
- MCS*3600 [0.50] Consumer Information Processes
- MCS*4370 [0.50] Marketing Strategy
- MCS*4600 [0.50] International Marketing
- MGMT*4000 [1.00] Strategic Management
- 0.50 Advanced Marketing/Capstone electives (see List E4)
- 2.00 electives

Restricted Electives for the Marketing Management Major

The electives in the B.Comm. Marketing Management program help ensure achievement of all of the University’s 10 Learning Objectives except “Numeracy.” The Marketing Management program delivers substantial “Numeracy” through its required math, statistics, and economics courses as well as through emphasis on data analysis in courses such as Research Methods (MCS*3030) and Market Analysis and Planning (MCS*3500).

Substitutions for restricted electives will be allowed if a Marketing and Consumer Studies Faculty Advisor agrees that a proposed alternative is relevant to marketing in today’s world and has an appropriate level of rigour.

Marketing Environment Elective - List E1

To supplement the knowledge students gain in MCS*1000 about the socio-cultural, economic, political/legal, and technological “environmental” factors that must be taken into consideration in marketing decision-making, marketing management majors must take one [0.50 credits] of:

- ANTH*1150 [0.50] Introduction to Anthropology
- ARTH*1220 [0.50] The Visual Arts Today
- EDRD*1400 [0.50] Introduction to Design
- FRHD*1010 [0.50] Human Development
- GEOG*1200 [0.50] Geography
- GEOG*1210 [0.50] Human Impact on the Environment
- GEOG*2510 [0.50] Canada: A Regional Synthesis
- HIST*2610 [0.50] Contemporary Canadian Issues
- NUTR*1010 [0.50] Nutrition and Society
- PHIL*2070 [0.50] Philosophy of the Environment
- POLS*1400 [0.50] Issues in Canadian Politics
- POLS*2250 [0.50] Public Administration and Governance
- POLS*2300 [0.50] Canadian Government and Politics
- SOC*1100 [0.50] Sociology

2012-2013 Undergraduate Calendar

Last Revision: Oct. 19, 2012
History/Global Elective - List E2
To help marketing majors develop a sense of the fundamental relativity of knowledge and understanding over time and/or to help them gain the global perspective needed in senior marketing courses, marketing management majors must take one [0.50 credits] of:

- ARTH*2490 [0.50] History of Canadian Art
- BIOL*1500 [0.50] Humans in the Natural World
- EURO*1050 [0.50] The Emergence of a United Europe
- GEOG*2030 [0.50] Environment and Development
- HIST*1150 [0.50] The Modern World
- HIST*1250 [0.50] Science and Technology in a Global Context
- HIST*2070 [0.50] World Religions in Historical Perspective
- HIST*2250 [0.50] Environment and History
- HIST*2300 [0.50] The United States Since 1776
- HIST*2510 [0.50] Modern Europe Since 1789
- HIST*2800 [0.50] The History of the Modern Family
- HIST*2910 [0.50] Modern Asia
- HIST*2930 [0.50] Women and Cultural Change
- HIST*3070 [0.50] Modern India
- HIST*3150 [0.50] History and Culture of Mexico
- ISS*2000 [0.50] Asia
- MUSC*2280 [0.50] Masterworks of Music
- POLS*1500 [0.50] World Politics
- POLS*2080 [0.50] Development and Underdevelopment
- POLS*2200 [0.50] International Relations

Leadership/Professionalism Elective - List E3
To help prepare senior marketing management majors for leadership positions in organizations, they must take one [0.50 credits] of:

- ECON*2310 [0.50] Intermediate Microeconomics
- ECON*2410 [0.50] Intermediate Macroeconomics
- EDRD*3160 [0.50] International Communication
- EDRD*4120 [0.50] Leadership Development in Small Organizations
- HROB*2010 [0.50] Foundations of Leadership
- MGMT*3020 [0.50] Corporate Social Responsibility
- MGMT*4260 [0.50] International Business

Advanced Marketing Capstone Elective - List E4
To enhance their understanding of marketing in terms of theory and/or application, senior marketing management majors must take one [0.50 credits] of:

- HROB*4010 [0.50] Leadership Capstone
- MATH*1030 [0.50] Management
- MATH*4040 [0.50] Management in Product Development
- MATH*4050 [0.50] The Evolution of Capitalism: A Canadian Perspective
- MATH*4100 [0.50] Entrepreneurship
- MATH*4200 [0.50] Research in Consumer Studies
- MATH*4300 [0.50] Marketing and Society
- MATH*4400 [0.50] Pricing Management
- MATH*4910 [0.50] Topics in Consumer Studies
- MATH*4920 [0.50] Topics in Consumer Studies
- MATH*4950 [0.50] Consumer Studies Practicum
- MGMT*4050 [0.50] Applied Community Project I
- MGMT*4060 [0.50] Applied Community Project II

Public Management (PMGT)

Department of Economics and Finance, College of Management and Economics

The Public Management program is designed to lead to an understanding of public sector administration and management from the "inside" - as an integrated enterprise - as well as from the outside - as a series of policy decisions and outcomes. Characterized by a multi-disciplinary approach employing both political and business-oriented analysis, students will confront questions of why politicians and public servants behave the way they do, and how their policy choices and processes can be optimized. Management of public entities features a unique set of challenges that arise from and interact with basic political issues like democracy, accountability, equity, fairness, and justice. At the same time it necessarily faces concerns common to all organizations, such as efficiency, human and capital resource management, morale, planning, and adaptation to change.

The program will appeal to students interested in the public service, public sector businesses or business-government relations. A co-ordinated sequence of courses may be capped in the final year by a year-long research project and thesis.

Students enrolled in the PMGT major complete three of the five required courses for the Certificate in Leadership as part of their core requirements for the program. If you would like to graduate both with a BComm degree and the Certificate in Leadership you should use two of your free electives to enroll in HROB*2010 in either semester 3 or 6 and HROB*4010 in semester 8. In addition to the five degree-credit courses selected from the above list, 120 hours of leadership practice are required to obtain the undergraduate Certificate in Leadership. See [http://www.leadershipcertificate.com](http://www.leadershipcertificate.com) for information regarding this Certificate and its course requirements.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study.

Liberal Education Requirement
As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major
For this major, 17.00 of the 20.00 credits are specified as core requirements and the remaining 3.00 as electives (including the Liberal Education Requirements of 1.50 credits).

Semester 1
- ECON*1050 [0.50] Introductory Microeconomics
- MCS*1000 [0.50] Introductory Marketing
- MGMT*1000 [1.00] Introduction to Business
- POLS*1400 [0.50] Issues in Canadian Politics

Semester 2
- ECON*1100 [0.50] Introductory Macroeconomics
- HROB*2100 [1.00] Managing People in Organizations
- MATH*1030 [0.50] Business Mathematics
- POLS*2300 [0.50] Canadian Government and Politics

Semester 3
- ACCT*2220 [0.50] Financial Accounting
- ECON*2310 [0.50] Intermediate Microeconomics
- POLS*3250 [0.50] Public Policy: Challenges and Prospects

One of:
- ECON*2220 [0.50] Industrial Relations
- ECON*2650 [0.50] Introductory Development Economics

Semester 4
- ACCT*2220 [0.50] Management Accounting
- MCS*2020 [0.50] Marketing Information Management
- POLS*2250 [0.50] Public Administration and Governance

One of:
- MGMT*3020 [0.50] Corporate Social Responsibility
- PHIL*2600 [0.50] Business and Professional Ethics

0.50 electives

Semester 5
- ECON*2560 [0.50] Theory of Finance
- FARE*3310 [0.50] Operations Management
- MGMT*3320 [0.50] Financial Management
- POLS*3470 [0.50] Business-Government Relations in Canada

One of:
- MCS*3040 [0.50] Business and Consumer Law
- HROB*3050 [0.50] Employment Law

Semester 6
- POLS*3210 [0.50] The Constitution and Canadian Federalism
- POLS*3670 [0.50] Comparative Public Policy and Administration
- POLS*3270 [0.50] Local Government in Ontario
- POLS*3440 [0.50] Corruption, Scandal and Political Ethics

0.50 electives

Semester 7
- ECON*3610 [0.50] Public Economics
- POLS*4250 [0.50] Topics in Public Management

One of:
- POLS*4970 [0.50] Honours Political Science Research I

0.50 credits at the 4000 level in Political Science

1.00 electives

Semester 8
- MGMT*4000 [1.00] Strategic Management

One of:
- POLS*4980 [0.50] Honours Political Science Research II

0.50 credits at the 4000 level in Political Science

1.00 electives
Public Management (Co-op) (PMGT:C)

Department of Economics and Finance, College of Management and Economics

A principal aim of the Co-op program in Public Management is to facilitate the transition of students from academic studies to a professional career by enhancing the integration of theory and practice.

The Co-op program in Public Management is a five year program, including 5 work terms. Although the schedule includes 5 work terms, students have the option to complete only 4 of the 5 work terms, but must graduate with a Fall, Winter and Summer work term. Please refer to the Co-operative Education programs policy with respect to adjusting the schedule listed below.

In order for students to be eligible to continue in the Co-op program, they must meet a minimum 70% cumulative average requirement after second semester, as well as meet all work term requirements. Please refer to the Co-operative Education program policy with respect to work term performance grading and work term report grading.

For additional program information students should consult with their Co-op Coordinator and Co-op Faculty Advisor, listed on the Co-operative Education & Career Services web site.

Students enrolled in the PMGT major complete three of the five required courses for the Certificate in Leadership as part of their core requirements for the program. If you would like to graduate both with a BComm degree and the Certificate in Leadership you should use two of your free electives to enrol in HRHB*2100 in either semester 3 or 6 and HRHB*4010 in semester 8. In addition to the five degree-credit courses selected from the above list, 120 hours of leadership practice are required to obtain the undergraduate Certificate in Leadership. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study.

The program will appeal to students interested in the public service, public sector businesses or business-government relations. A co-ordinated sequence of courses may be capped in the final year by a year-long research project and thesis.

Liberal Education Requirement

As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major

For this major, 17.00 of the 20.00 credits are specified as core requirements and the remaining 3.00 as electives (including the Liberal Education Requirements of 1.50 credits).

Semester 1 - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ECON*1050</td>
<td>[0.50]</td>
<td>Introductory Microeconomics</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>[0.50]</td>
<td>Introductory Marketing</td>
</tr>
<tr>
<td>MGMT*1000</td>
<td>[1.00]</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>POLS*1400</td>
<td>[0.50]</td>
<td>Issues in Canadian Politics</td>
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Semester 2 - Winter

<table>
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<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON*1100</td>
<td>[0.50]</td>
<td>Introductory Macroeconomics</td>
</tr>
<tr>
<td>HRHB*2100</td>
<td>[1.00]</td>
<td>Managing People in Organizations</td>
</tr>
<tr>
<td>MATH*1030</td>
<td>[0.50]</td>
<td>Business Mathematics</td>
</tr>
<tr>
<td>POLS*2300</td>
<td>[0.50]</td>
<td>Canadian Government and Politics</td>
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Semester 3 - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ACCT*2220</td>
<td>[0.50]</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>[0.00]</td>
<td>Introduction to Co-operative Education</td>
</tr>
<tr>
<td>ECON*2310</td>
<td>[0.50]</td>
<td>Intermediate Microeconomics</td>
</tr>
<tr>
<td>POLS*3250</td>
<td>[0.50]</td>
<td>Public Policy: Challenges and Prospects</td>
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One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON*2200</td>
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<td>Industrial Relations</td>
</tr>
<tr>
<td>ECON*2650</td>
<td>[0.50]</td>
<td>Introductory Development Economics</td>
</tr>
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<td>ECON*2740</td>
<td>[0.50]</td>
<td>Economic Statistics</td>
</tr>
<tr>
<td>STAT*2060</td>
<td>[0.50]</td>
<td>Statistics for Business Decisions</td>
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Semester 4 - Winter

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<tbody>
<tr>
<td>ACCT*2220</td>
<td>[0.50]</td>
<td>Management Accounting</td>
</tr>
<tr>
<td>MCS*2020</td>
<td>[0.50]</td>
<td>Marketing Information Management</td>
</tr>
<tr>
<td>POLS*2250</td>
<td>[0.50]</td>
<td>Public Administration and Governance</td>
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One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>MGMT*3020</td>
<td>[0.50]</td>
<td>Corporate Social Responsibility</td>
</tr>
<tr>
<td>PHIL*2600</td>
<td>[0.50]</td>
<td>Business and Professional Ethics</td>
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0.50 electives

Summer Semester

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>COOP*1000</td>
<td>[0.00]</td>
<td>Co-op Work Term I</td>
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Fall Semester

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>COOP*2000</td>
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<td>Co-op Work Term II</td>
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Semester 5 - Winter

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ECON*2560</td>
<td>[0.50]</td>
<td>Theory of Finance</td>
</tr>
<tr>
<td>FARE*3310</td>
<td>[0.50]</td>
<td>Operations Management</td>
</tr>
<tr>
<td>POLS*3210</td>
<td>[0.50]</td>
<td>The Constitution and Canadian Federalism</td>
</tr>
<tr>
<td>MGMT*3320</td>
<td>[0.50]</td>
<td>Financial Management</td>
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</tbody>
</table>

0.50 electives

Summer Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>COOP*3000</td>
<td>[0.00]</td>
<td>Co-op Work Term III</td>
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Semester 6 - Fall

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ECON*3610</td>
<td>[0.50]</td>
<td>Public Economics</td>
</tr>
<tr>
<td>POLS*3470</td>
<td>[0.50]</td>
<td>Business-Government Relations in Canada</td>
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One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MCS*3040</td>
<td>[0.50]</td>
<td>Business and Consumer Law</td>
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<tr>
<td>HRHB*3050</td>
<td>[0.50]</td>
<td>Employment Law</td>
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1.00 electives

Winter Semester

<table>
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<tr>
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<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>COOP*4000</td>
<td>[0.00]</td>
<td>Co-op Work Term IV (Eight month work term Winter/Summer)</td>
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Summer Semester

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<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>COOP*5000</td>
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<td>Co-op Work Term V (Eight month work term Winter/Summer)</td>
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Semester 7 - Fall

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<tbody>
<tr>
<td>MGMT*4000</td>
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<td>Strategic Management</td>
</tr>
<tr>
<td>POLS*4250</td>
<td>[0.50]</td>
<td>Topics in Public Management</td>
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One of:

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>POLS*4070</td>
<td>[0.50]</td>
<td>Honours Political Science Research I</td>
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<td>0.50 credits at the 4000 level in Political Science</td>
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0.50 electives

Semester 8 - Winter

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<tbody>
<tr>
<td>POLS*3670</td>
<td>[0.50]</td>
<td>Comparative Public Policy and Administration</td>
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<tr>
<td>POLS*3270</td>
<td>[0.50]</td>
<td>Local Government in Ontario</td>
</tr>
<tr>
<td>POLS*3440</td>
<td>[0.50]</td>
<td>Corruption, Scandal and Political Ethics</td>
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One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>POLS*4980</td>
<td>[0.50]</td>
<td>Honours Political Science Research II</td>
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<tr>
<td>0.50 credits at the 4000 level in Political Science</td>
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0.50 electives

Real Estate and Housing (REH)

Department of Marketing and Consumer Studies, College of Management and Economics

The Real Estate and Housing major in the B.Comm. program is one of only two undergraduate programs in Canada that specialize in the real estate sector. It takes a multi-disciplinary approach to the study of residential and commercial/investment real estate. Topics such as the development, financing, valuation, market analysis and management of real estate are taught in the context of economic, legal, political and social factors affecting this large and growing field of business in Canada and the world.

The purpose of this major is to develop the conceptual, analytical and management skills required for careers in real estate and housing. Students graduate with a degree that can lead to a variety of professional positions in the private or public sectors of the Canadian real estate industry or they can continue on to graduate work in business, planning or the social sciences.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Examples: (1) students can use Liberal Education and free electives to earn the Certificate in Leadership. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements; (2) students interested in languages and/or going on exchange can use their Liberal Education and free electives to study one or more of the various languages taught at the University. (3) Students interested in obtaining their Accredited Appraiser Canadian Institute (AACI) designation should consider taking the additional 4 required courses through University of British Columbia distance education by letter of permission to count as electives in their degree, once they have completed REAL*4820.

Note: students also can take courses of interest as electives without concern for clustering. Students may consult the REH Faculty Advisor or B.Comm. Program Counsellor for additional information.

Liberal Education Requirement

As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major

Students in the Real Estate and Housing major are required to take the courses listed below. For this major, 16.00 of the 20.00 credits are specified as core requirements and 4.00 as electives (including the Liberal Education Requirements of 1.50 credits.)
Semester 1
ECON*1050 [0.50] Introductory Microeconomics
REAL*1820 [0.50] Real Estate and Housing
MGMT*1000 [1.00] Introduction to Business
0.50 electives

Semester 2
ACCT*2220 [0.50] Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
MCS*1000 [0.50] Introductory Marketing
MATH*1030 [0.50] Business Mathematics
0.50 electives

Semester 3
ACCT*2230 [0.50] Management Accounting
ECON*2310 [0.50] Intermediate Microeconomics
REAL*2850 [0.50] Service Learning in Housing
One of:
ECON*2740 [0.50] Economic Statistics
STAT*2060 [0.50] Statistics for Business Decisions
0.50 electives

Semester 4
ECON*2560 [0.50] Theory of Finance
HROB*2100 [1.00] Managing People in Organizations
REAL*2820 [0.50] Real Estate Finance
One of:
CIS*1200 [0.50] Introduction to Computing
CIS*1500 [0.50] Introduction to Programming
MCS*2020 [0.50] Marketing Information Management
0.50 electives

Semester 5
ECON*2410 [0.50] Intermediate Macroeconomics
REAL*4820 [0.50] Real Estate Appraisal
REAL*4840 [0.50] Housing and Real Estate Law
1.00 electives

Semester 6
ECON*3660 [0.50] Economics of Equity Markets
ECON*3960 [0.50] Money, Credit and the Financial System
LARC*2820 [0.50] Urban and Regional Planning
MGMT*3320 [0.50] Financial Management
0.50 electives

Semester 7
ECON*3500 [0.50] Urban Economics
MGMT*4000 [1.00] Strategic Management
REAL*3810 [0.50] Real Estate Market Analysis
0.50 electives

Semester 8
POLS*3270 [0.50] Local Government in Ontario
REAL*3890 [0.50] Property Management
REAL*4830 [1.00] Real Estate Development Project
0.50 electives

Real Estate and Housing (Co-op) (REH:C)

Department of Marketing and Consumer Studies, College of Management and Economics

The Real Estate and Housing major in the B.Comm. program is one of only two undergraduate programs in Canada that specialize in the real estate sector. It takes a multi-disciplinary approach to the study of residential and commercial/investment real estate.

The purpose of this major is to develop the conceptual, analytical and management skills required for careers in real estate and housing. Students graduate with a degree that can lead to a variety of professional positions in the private or public sectors of the Canadian real estate industry or they can continue on to graduate work in business, planning or the social sciences.

A principal aim of the Co-op program in Real Estate and Housing is to facilitate the transition of students from academic studies to a professional career by enhancing the integration of theory and practice.

The Co-op program in Real Estate and Housing is a five year program, including 5 work terms. Although the schedule includes 5 work terms, students have the option to complete only 4 of the 5 work terms, but must graduate with a Fall, Winter and Summer work term. Please refer to the Co-operative Education programs policy with respect to work term performance grading and work term report grading.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Examples: (1) students can use Liberal Education and free electives to earn the Certificate in Leadership. See http://www.leadershipcertificate.com/ for information regarding this Certificate and its course requirements; (2) students interested in languages and/or going on exchange can use their Liberal Education and free electives to study one or more of the various languages taught at the University; (3) Students interested in obtaining their Accredited Appraiser Canadian Institute (AACI) designation should consider taking the additional 4 required courses through University of British Columbia distance education by letter of permission to count as electives in their degree, once they have completed REAL*4820.

Note: students also can take courses of interest as electives without concern for clustering.

For additional program information students should consult with the B.Comm Program Counsellors or their Co-op Co-ordinator and Co-op Faculty Advisor, listed on the Co-operative Education & Career Services web site.

Liberal Education Requirement

As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major

For this major, 16.00 of the 20.00 credits are specified as core requirements and 4.00 electives (including the Liberal Education Requirements of 1.50 credits.)

Semester 1 - Fall
ECON*1050 [0.50] Introductory Microeconomics
REAL*1820 [0.50] Real Estate and Housing
MGMT*1000 [1.00] Introduction to Business
0.50 electives

Semester 2 - Winter
ACCT*2220 [0.50] Financial Accounting
ECON*1100 [0.50] Introductory Macroeconomics
MCS*1000 [0.50] Introductory Marketing
MATH*1030 [0.50] Business Mathematics
0.50 electives

Semester 3 - Fall
ACCT*2230 [0.50] Management Accounting
ECON*2310 [0.50] Intermediate Microeconomics
REAL*2850 [0.50] Service Learning in Housing
One of:
ECON*2740 [0.50] Economic Statistics
STAT*2060 [0.50] Statistics for Business Decisions
0.50 electives

Semester 4 - Winter
ECON*2410 [0.50] Intermediate Macroeconomics
REAL*4820 [0.50] Real Estate Appraisal
REAL*4840 [0.50] Housing and Real Estate Law
1.00 electives

Semester 5 - Winter
ECON*3660 [0.50] Economics of Equity Markets
ECON*3960 [0.50] Money, Credit and the Financial System
LARC*2820 [0.50] Urban and Regional Planning
MGMT*3320 [0.50] Financial Management
0.50 electives

Semester 6 - Fall
ECON*3500 [0.50] Urban Economics
MGMT*4000 [1.00] Strategic Management
REAL*3810 [0.50] Real Estate Market Analysis
0.50 electives

Semester 7 - Winter
ECON*3660 [0.50] Economics of Equity Markets
ECON*3960 [0.50] Money, Credit and the Financial System
REAL*3890 [0.50] Property Management
One of:
CIS*1200 [0.50] Introduction to Computing
CIS*1500 [0.50] Introduction to Programming
MCS*2020 [0.50] Marketing Information Management
0.50 electives

Semester 8 - Winter
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*2560 [0.50] Theory of Finance
HROB*2100 [1.00] Managing People in Organizations
REAL*2820 [0.50] Real Estate Finance

Summer Semester
COOP*1000 [0.00] Co-op Work Term I

Fall Semester
COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter
ECON*3660 [0.50] Economics of Equity Markets
ECON*3960 [0.50] Money, Credit and the Financial System
REAL*3890 [0.50] Property Management
One of:
CIS*1200 [0.50] Introduction to Computing
CIS*1500 [0.50] Introduction to Programming
MCS*2020 [0.50] Marketing Information Management
0.50 electives

Summer Semester
COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall
MGMT*3320 [0.50] Financial Management
REAL*4820 [0.50] Real Estate Appraisal
REAL*4840 [0.50] Housing and Real Estate Law
1.00 electives

Winter Semester
COOP*4000 [0.00] Co-op Work Term IV
(8 month work term Winter/Summer)

Summer Semester
COOP*5000 [0.00] Co-op Work Term V
(Eight month work term Winter/Summer)

Semester 7 - Fall

ECON*3500 [0.50] Urban Economics
MGMT*4000 [1.00] Strategic Management
REAL*3810 [0.50] Real Estate Market Analysis
0.50 electives

Semester 8 - Winter

LARC*2820 [0.50] Urban and Regional Planning
POL*S3270 [0.50] Local Government in Ontario
REAL*4830 [1.00] Real Estate Development Project
0.50 electives

Tourism Management (TMGT)

School of Hospitality and Tourism Management, College of Management and Economics

As the world's largest industry, tourism encompasses a wide range of public and private enterprises that require knowledgeable and talented management professionals. The program in Tourism Management builds on a strong base of hospitality management courses (human resources management, accounting, finance, hotel operations). In conjunction with these courses the program provides specialized courses dealing with the economic, social, cultural and environmental aspects of the industry as well as the critical functions of tourism marketing, distribution, planning and development. In addition, there are opportunities to develop expertise in eco-tourism and international tourism operations. Students may consult the Faculty Advisor or the B.Comm. Program Counsellor for additional information.

Verified work experience in the hospitality and tourism industry is required for students to be eligible to graduate. Group work is a significant part of core credit work.

Liberal Education Requirement

As part of the graduation requirement all students within the B.Comm. Program are required to complete 1.50 credits from at least two different subject prefixes as listed under the B.Comm. Program Information section of the undergraduate calendar.

Major

For this major, 15.50 of the 20.00 credits are specified as core requirements, 2.00 are restricted electives (from List A), 1.50 are the Liberal Education Requirement and 1.00 are free electives.

Given the professional and applied nature of the program, there are no double majors or minors associated with the degree. Elective options enable students to select courses which support or complement their primary field of study. Students interested in earning the Certificate in Leadership can use a combination of restricted, Liberal Education and free electives to do so. See http://www.leadershipcertificate.com/ for information about this certificate and its course requirements.

Semester 1

ECON*1050 [0.50] Introductory Microeconomics
HTM*1000 [0.50] Introduction to Hospitality and Tourism Management
MATH*1030 [0.50] Business Mathematics
MGMT*1000 [1.00] Introduction to Business

Semester 2

ECON*1100 [0.50] Introductory Macroeconomics
GEOG*1220 [0.50] Human Impact on the Environment
HTM*2100 [0.50] Hospitality and Tourism Business Communications
HTM*2100 [0.50] Lodging Operations
MCS*1000 [0.50] Introductory Marketing

Semester 3

ACCT*2220 [0.50] Financial Accounting
HROB*2100 [1.00] Managing People in Organizations
One of:
   ECON*2740 [0.50] Economic Statistics
   STAT*2060 [0.50] Statistics for Business Decisions
0.50 from List A or electives

Semester 4

ACCT*2220 [0.50] Management Accounting
ECON*2560 [0.50] Theory of Finance
HTM*2170 [0.50] Tourism Policy, Planning and Development
MCS*2020 [0.50] Marketing Information Management
0.50 from List A or electives

Semester 5

HROB*3100 [0.50] Managerial Skills
HTM*3080 [0.50] Hospitality and Tourism Marketing
HTM*3160 [0.50] Destination Management and Marketing
MGMT*3320 [0.50] Financial Management
0.50 from List A or electives

Semester 6

FARE*4360 [0.50] Marketing Research
HTM*2070 [0.50] Meetings and Convention Management
HTM*3120 [0.50] Service Operations Analysis
MCS*3040 [0.50] Business and Consumer Law
0.50 from List A or electives

Semester 7

HTM*4190 [0.50] Hospitality and Tourism Operations Planning
MGMT*4000 [1.00] Strategic Management
1.00 from List A or electives

Semester 8

EDRD*4010 [0.50] Tourism Planning in the Less Developed World
HTM*4170 [0.50] International Tourism
1.50 from List A or electives

List A - Restricted Electives

In addition to the required core credits listed above, students must also take a minimum of 2.00 restricted elective credits from the following list, throughout the program. Students may choose to explore a variety of subjects or may choose to study an area related to their major in some depth. Restricted electives are listed below and have been grouped into major subject areas which are related to the professional interests of the Tourism Management major. Students may, however, choose restricted electives from any of those listed without regard to the categories.

Students may also select language courses as restricted electives. Students without a second language are encouraged to take language courses.

Courses related to eco-tourism:

ECON*2100 [0.50] Economic Growth and Environmental Quality
EDRD*3400 [0.50] Sustainable Communities
FARE*2700 [0.50] Survey of Natural Resource Economics
FARE*4290 [0.50] Land Economics
FARE*4310 [0.50] Resource Economics
GEOG*2210 [0.50] Environment and Resources
GEOG*3490 [0.50] Tourism and Environment
PHIL*2070 [0.50] Philosophy of the Environment
POLS*3370 [0.50] Environmental Policies and Governance

Courses related to international tourism:

ECON*2650 [0.50] Introductory Development Economics
ECON*3620 [0.50] International Trade
ECON*4830 [0.50] Economic Development
EDRD*3160 [0.50] International Communication
GEOG*3490 [0.50] Tourism and Environment
HTM*2740 [0.50] Cultural Aspects of Food

Courses for those interested in developing tourism related real estate:

GEOG*3490 [0.50] Tourism and Environment
LARC*2820 [0.50] Urban and Regional Planning
REAL*1820 [0.50] Real Estate and Housing
REAL*2820 [0.50] Real Estate Finance
REAL*3810 [0.50] Real Estate Market Analysis
REAL*3890 [0.50] Property Management
REAL*4820 [0.50] Real Estate Appraisal
REAL*4840 [0.50] Housing and Real Estate Law

Courses dealing with the social and economic environment of business:

ECON*2310 [0.50] Intermediate Microeconomics
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*3520 [0.50] Labour Economics
ECON*3660 [0.50] Economics of Equity Markets
ECON*3760 [0.50] Fundamentals of Derivatives
ECON*3860 [0.50] International Finance
ECON*3960 [0.50] Money, Credit and the Financial System
MCS*4050 [0.50] The Evolution of Capitalism: A Canadian Perspective
PHIL*1010 [0.50] Introductory Philosophy: Social and Political Issues
PHIL*2600 [0.50] Business and Professional Ethics
POLS*1400 [0.50] Issues in Canadian Politics

Courses dealing with human behaviour particularly as related to work and work groups:

ANTH*1150 [0.50] Introduction to Anthropology
ANTH*2160 [0.50] Social Anthropology
HROB*2010 [0.50] Foundations of Leadership
HROB*3030 [0.50] Occupational Health and Safety
HROB*3050 [0.50] Employment Law
HROB*4010 [0.50] Leadership Capstone
ECON*2200 [0.50] Industrial Relations
PSYC*1000 [0.50] Introduction to Psychology
PSYC*2310 [0.50] Introduction to Social Psychology
SOAN*2040 [0.50] Globalization of Work and Organizations
SOC*1100 [0.50] Sociology

Courses dealing with marketing and consumer behaviour:

ECON*3620 [0.50] International Trade
ECON*4830 [0.50] Economic Development
EDRD*3160 [0.50] International Communication
GEOG*3490 [0.50] Tourism and Environment
HTM*2740 [0.50] Cultural Aspects of Food

2012-2013 Undergraduate Calendar
X. Degree Programs, Bachelor of Commerce (B.Comm.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCS*2600</td>
<td>Fundamentals of Consumer Behaviour</td>
</tr>
<tr>
<td>MCS*3000</td>
<td>Advanced Marketing</td>
</tr>
<tr>
<td>MCS*3010</td>
<td>Quality Management</td>
</tr>
<tr>
<td>MCS*3620</td>
<td>Marketing Communications</td>
</tr>
<tr>
<td>MCS*4400</td>
<td>Pricing Management</td>
</tr>
<tr>
<td>PSYC*1000</td>
<td>Introduction to Psychology</td>
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**Courses related to Hospitality and Tourism Management:**

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<th>Course Code</th>
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<tr>
<td>HTM*2700</td>
<td>Introductory Foods</td>
</tr>
<tr>
<td>HTM*2740</td>
<td>Cultural Aspects of Food</td>
</tr>
<tr>
<td>HTM*3030</td>
<td>Beverage Management</td>
</tr>
<tr>
<td>HTM*3060</td>
<td>Lodging Management</td>
</tr>
<tr>
<td>HTM*3090</td>
<td>Restaurant Operations Management</td>
</tr>
<tr>
<td>HTM*3180</td>
<td>Casino Operations Management</td>
</tr>
<tr>
<td>HTM*3780</td>
<td>Economics of Food Usage</td>
</tr>
<tr>
<td>HTM*4050</td>
<td>Wine and Oenology</td>
</tr>
<tr>
<td>HTM*4090</td>
<td>Hospitality and Tourism Facilities Management</td>
</tr>
<tr>
<td>HTM*4100</td>
<td>Advanced Restaurant Operations</td>
</tr>
<tr>
<td>HTM*4130</td>
<td>Current Management Topics</td>
</tr>
<tr>
<td>HTM*4250</td>
<td>Hospitality Revenue Management</td>
</tr>
<tr>
<td>HTM*4500</td>
<td>Special Study in Hospitality and Tourism</td>
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**Courses related to accounting and administration:**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>ACCT*2240</td>
<td>Applied Financial Accounting</td>
</tr>
<tr>
<td>ACCT*3230</td>
<td>Intermediate Management Accounting</td>
</tr>
<tr>
<td>ACCT*3280</td>
<td>Auditing I</td>
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<tr>
<td>ACCT*3330</td>
<td>Intermediate Financial Accounting I</td>
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<tr>
<td>ACCT*3340</td>
<td>Intermediate Financial Accounting II</td>
</tr>
<tr>
<td>ACCT*3350</td>
<td>Taxation</td>
</tr>
<tr>
<td>ACCT*4220</td>
<td>Advanced Financial Accounting</td>
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<tr>
<td>ACCT*4230</td>
<td>Advanced Management Accounting</td>
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<tr>
<td>MCS*2100</td>
<td>Personal Financial Management</td>
</tr>
<tr>
<td>MGMT*4260</td>
<td>International Business</td>
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**Courses to prepare for The Certified Human Resource Professional (CHRP) designation:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2200</td>
<td>Industrial Relations</td>
</tr>
<tr>
<td>HROB*3010</td>
<td>Compensation Systems</td>
</tr>
<tr>
<td>HROB*3030</td>
<td>Occupational Health and Safety</td>
</tr>
<tr>
<td>HROB*3070</td>
<td>Recruitment and Selection</td>
</tr>
<tr>
<td>HROB*3090</td>
<td>Training and Development</td>
</tr>
<tr>
<td>HROB*4060</td>
<td>Human Resources Planning</td>
</tr>
<tr>
<td>CHEM*1100</td>
<td>Chemistry Today</td>
</tr>
<tr>
<td>CIS*1000</td>
<td>Introduction to Computer Applications</td>
</tr>
<tr>
<td>EDRD*3140</td>
<td>Organizational Communication</td>
</tr>
<tr>
<td>ENGL*1200</td>
<td>Reading the Contemporary World</td>
</tr>
<tr>
<td>ENGL*1410</td>
<td>Major Writers</td>
</tr>
<tr>
<td>MGMT*4050</td>
<td>Applied Community Project I</td>
</tr>
<tr>
<td>MGMT*4060</td>
<td>Applied Community Project II</td>
</tr>
<tr>
<td>PHIL*2100</td>
<td>Critical Thinking</td>
</tr>
</tbody>
</table>

**Electives and Liberal Education Requirement**

The 2.50 electives in the program must include 1.50 credits toward the B.Comm. Liberal Education Requirement.

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Last Revision: Oct. 19, 2012
2012-2013 Undergraduate Calendar
Bachelor of Computing (B.Comp.)

Students graduating from this program obtain a solid foundation in the theory and application of all aspects of computing and information science. Core subjects, combined with in-depth study in an area of application, give students the freedom to combine their interests in computing with other areas of study and application.

There are two majors available in the Bachelor of Computing honours program. The major in Computer Science provides a traditional computing foundation in software, hardware, and theory. The major in Software Engineering contains an emphasis on software development and design and has a greater focus on team work, communication skills, and professional standards.

Course projects are based on real-world software development scenarios and allows students to get the professional experience valued by today's high-tech employers. The focused study in a second discipline (area of application) gives students the background to effectively apply their knowledge.

Both majors require the equivalent of 8 semesters of successful full-time study. The general program requires the equivalent of 6 semesters of successful full-time study are available. Students in the honours program must choose a major in either Computer Science or Software Engineering. The majors are also available with a Co-op option.

Since not all courses are offered in every semester and prerequisite dependencies must be observed, students are encouraged to consult the program B.Comp. counsellor to plan an initial program of study or when considering modifications to the suggested schedule of studies list.

Program Information

To graduate with an honours Degree with a major in Computer Science or Software Engineering a student must:

a. Successfully complete 20.00 credits. These must include the 11.25 CIS credits, a minimum of 4.00 credits in an Area of Application and an additional 4.75 credits as free electives. Not more than 6.00 credits from courses at the introductory (1000) level may be counted towards the 20.00 credit requirement.

The program requires 6.00 Computing and Information Science credits at the 3000 level or above, which must include 2.00 credits at the 4000 level. The area of Application requires an additional 1.00 credits at the 3000 level or above. The Area of Application is a graduation requirement and must be approved by Semester 4 by the faculty advisor.

b. Obtain a cumulative average at least 70% in CIS courses and a 60% cumulative average in all courses.

c. An Area of Application normally consists of 4.00 credits (normally 8 courses) of a minor. Minors are described under the B.A. and B.Sc. programs. Access to some courses may be limited. Minors are listed in Section X of the Calendar. A student may complete a minor should they decide to do so.

Students must consult the faculty advisor for approval of their Area of Application by semester 4. Not all disciplines or courses may be available as areas of application.

Students failing to meet the graduation requirements of the honours program may apply to graduate with a general degree if the requirements for the general degree are met.

Continuation of Study

Students are advised to consult the regulations for Continuation of Study which are outlined in detail in Section VIII Degree Regulations Procedures of this calendar.

General Program

Department of Computing and Information Science, College of Physical and Engineering Science

To graduate from a general program a student must:

a. Earn 15.00 credits. These must include courses that fulfill the distribution requirements of the general Degree (see below). At least 4.00 credits must be at the 3000 level or above. Not more than 6.00 credits at the introductory (1000) level may be counted towards the 15.00 credit requirement.

b. No more than 11.00 credits in any one subject or discipline, as indicated by the course prefix code, can be counted towards a general degree.

c. Successfully complete the following credits:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1500</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CIS*1910</td>
<td>[0.50]</td>
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<tr>
<td>CIS*2430</td>
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<tr>
<td>CIS*2500</td>
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<td>CIS*2520</td>
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<td>CIS*2750</td>
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<td>CIS*3910</td>
<td>[0.50]</td>
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<tr>
<td>CIS*3530</td>
<td>[0.50]</td>
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<tr>
<td>MATH*1200</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*2040</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

1. Earn 2.00 science credits (list of courses available in the Program Counsellor's office) and 2.00 credits in the College of Arts or College of Social and Applied Human Sciences in addition to the courses listed in c.

Computer Science (CS)

Department of Computing and Information Science, College of Physical and Engineering Science

Major (Honours Program)

Since many courses are offered in only one semester and course pre-requisites place an ordering on courses, the following program of studies is designed so that students can schedule their courses over 8 semesters of study. Students deviating from this schedule must consult with their academic advisor.

Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1500</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>[0.50]</td>
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</table>

Introduction to Programming

1.00 credits in the Area of Application or electives

Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>CIS*2500</td>
<td>[0.50]</td>
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</table>

Intermediate Programming

1.00 credits in the Area of Application or electives

Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CIS*2030</td>
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<tr>
<td>CIS*2430</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CIS*2520</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CIS*2910</td>
<td>[0.50]</td>
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</table>

Discrete Structures in Computing I

0.50 credits in the Area of Application or electives

Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CIS*2750</td>
<td>[0.75]</td>
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<tr>
<td>CIS*3110</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CIS*3490</td>
<td>[0.50]</td>
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</table>

Software Systems Development and Integration

Operating Systems I

The Analysis and Design of Computer Algorithms

0.75 credits in the Area of Application or elective

Semester 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CIS*3150</td>
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</tr>
<tr>
<td>CIS*3750</td>
<td>[0.75]</td>
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</table>

Theory of Computation

System Analysis and Design in Applications

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CIS*2460</td>
<td>[0.50]</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>[0.50]</td>
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</tbody>
</table>

Modelling of Computer Systems

Statistics I

0.75 credits in the Area of Application or electives

Semester 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*3760</td>
<td>[0.75]</td>
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</table>

Software Engineering

0.50 C.I.S electives at the 3000 level or above

1.25 credits in the Area of Application or electives

Semester 7

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CIS*4000</td>
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</tbody>
</table>

Applications of Computing Seminar

0.50 credits in CIS at the 3000 level or above

0.50 credits in CIS at the 4000 level

Semester 8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CIS*4000</td>
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</tbody>
</table>

Applications of Computing Seminar

0.50 credits in CIS at the 3000 level or above

0.50 credits in CIS at the 4000 level

Computer Science (Co-op) (CS:C)

Computing and Information Science, College of Physical and Engineering Science

The honours major in Computer Science is available with a Co-operative Education option. Students may apply for this option at the time of University admission or completion of semester 2. Please check with CIS Co-op faculty advisor for semester planning.

Since many courses are offered in only one semester and course pre-requisites place an ordering on courses, the following program of studies is designed so that students can schedule their courses over 8 semesters of study. Students deviating from this schedule must consult with their Co-op faculty advisor.

Computer Science Co-op Work Term Schedule

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Winter</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Academic</td>
<td>Academic</td>
<td>Off</td>
</tr>
<tr>
<td>2</td>
<td>Academic</td>
<td>Academic</td>
<td>Work Term 1</td>
</tr>
<tr>
<td>3</td>
<td>Work Term 2</td>
<td>Academic</td>
<td>Work Term 3</td>
</tr>
<tr>
<td>4</td>
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<td>Work Term 4</td>
<td>Work Term 5</td>
</tr>
<tr>
<td>5</td>
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<td>Academic</td>
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</table>

Note: that a total of four work terms are necessary to complete the Co-op requirement.

Students are not required to take each eight month Co-op term at a single employer and can take two four month placements at different employers.
The course COOP*1100 must be successfully completed before the student may apply for a placement for the first work term (normally 2 semesters before the first work term). COOP*1000, COOP*2000, COOP*3000, COOP*4000 and COOP*5000 represent the first, second, third, fourth, and fifth work terms respectively.

Students are advised to plan their schedule of studies well in advance so that they can take all required prerequisites for later (especially 4000 level) courses. Students should note that some 4000 level courses are only given in alternate years. Failure to plan may result in the inability to take a particular senior CIS course. Not all sequences may be viable. Please check with the CIS Co-op faculty advisor for semester planning.

Conditions for graduation are the same as the corresponding regular B.Comp. program. In addition, all work reports and performance evaluations must have a grade of satisfactory or better.

**Major Co-op (Honours Program)**

The recommended schedule of studies for Co-op is as follows:

**Semester 1 - Fall**
- CIS*1500 [0.50] Introduction to Programming
- MATH*1200 [0.50] Calculus I
- 1.50 credits in the Area of Application or electives

**Semester 2 - Winter**
- CIS*1910 [0.50] Discrete Structures in Computing I
- CIS*2500 [0.50] Intermediate Programming
- 1.50 credits in the Area of Application or electives

**Summer Semester - Off**

**Semester 3 - Fall**
- CIS*2030 [0.50] Structure and Application of Microcomputers
- CIS*2430 [0.50] Object Oriented Programming
- CIS*2520 [0.50] Data Structures
- CIS*2910 [0.50] Discrete Structures in Computing II
- COOP*1100 [0.00] Introduction to Co-operative Education
- 0.50 credits in the Area of Application or electives

**Semester 4 - Winter**
- CIS*2750 [0.75] Software Systems Development and Integration
- CIS*3110 [0.50] Operating Systems I
- CIS*3250 [0.50] Software Design III
- 0.50 credits in the Area of Application or electives

**Semester 5**
- CIS*3260 [0.50] Software Design IV
- CIS*3750 [0.75] System Analysis and Design in Applications
- One of:
  - CIS*2460 [0.50] Modelling of Computer Systems
  - STAT*2040 [0.50] Statistics I
- 0.75 credits in the Area of Application or electives

**Semester 6**
- CIS*3760 [0.75] Software Engineering
- 0.50 C.I.S electives at the 3000 level or above
- 1.25 credits in the Area of Application or electives

**Semester 7**
- CIS*4150 [0.50] Software Reliability and Testing
- CIS*4250 [0.50] Software Design V
- CIS*4300 [0.50] Human Computer Interaction
- 1.00 credits in the Area of Application or electives

**Semester 8**
- 1.50 credits in the Area of Application or electives
- 0.50 credits in CIS at the 3000 level or above
- 0.50 credits in CIS at the 4000 level

**Software Engineering (Co-op) (SENG:C)**

**Computing and Information Science, College of Physical and Engineering Science**

The honours major in Software Engineering is available with a Co-operative Education option. Students may apply for this option at the time of University admission or completion of semester 2. Please check with CIS Co-op faculty advisor for semester planning.

Since many courses are offered in only one semester and course pre-requisites place an ordering on courses, the following program of studies is designed so that students can schedule their courses over 8 semesters of study. Students deviating from this schedule must consult with their Co-op faculty advisor.

Software Engineering Co-op Work Term Schedule

<table>
<thead>
<tr>
<th>Program</th>
<th>Fall</th>
<th>Winter</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
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<td>Academic</td>
<td>Off</td>
</tr>
<tr>
<td>Year 2</td>
<td>Academic</td>
<td>Academic</td>
<td>Work Term 1</td>
</tr>
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<td>Work Term 2</td>
<td>Academic</td>
<td>Work Term 3</td>
</tr>
<tr>
<td>Year 4</td>
<td>Academic</td>
<td>Work Term 4</td>
<td>Work Term 5</td>
</tr>
<tr>
<td>Year 5</td>
<td>Academic</td>
<td>Academic</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** that a total of four work terms are necessary to complete the Co-op requirement. Students are not required to take each eight month Co-op term at a single employer and can take two four month placements at different employers.

The course COOP*1100 must be successfully completed before the student may apply for a placement for the first work term (normally 2 semesters before the first work term). COOP*1000, COOP*2000, COOP*3000, COOP*4000 and COOP*5000 represent the first, second, third, fourth, and fifth work terms respectively.
Students are advised to plan their schedule of studies well in advance so that they can take all required prerequisites for later (especially 4000 level) courses. Students should note that some 4000 level courses are only given in alternate years. Failure to plan may result in the inability to take a particular senior CIS course. Not all sequences may be viable. Please check with the CIS Co-op faculty advisor for semester planning.

Conditions for graduation are the same as the corresponding regular B.Comp. program. In addition, all work reports and performance evaluations must have a grade of satisfactory or better.

**Major (Honours Program) Co-op**

The recommended schedule of studies for Co-op is as follows:

### Semester 1 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1250</td>
<td>Software Design I</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*1500</td>
<td>Introduction to Programming</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.50 credits in the Area of Application or electives

### Semester 2 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1910</td>
<td>Discrete Structures in Computing I</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*2250</td>
<td>Software Design II</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*2500</td>
<td>Intermediate Programming</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.00 credits in the Area of Application or electives

### Summer Semester - Off

### Semester 3 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*2030</td>
<td>Structure and Application of Microcomputers</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*2430</td>
<td>Object Oriented Programming</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*2520</td>
<td>Data Structures</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*3250</td>
<td>Software Design III</td>
<td>0.50</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>Introduction to Co-operative Education</td>
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</table>

0.50 credits in the Area of Application or electives

### Semester 4 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*2750</td>
<td>Software Systems Development and Integration</td>
<td>0.75</td>
</tr>
<tr>
<td>CIS*3110</td>
<td>Operating Systems I</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.75 credits in the Area of Application or elective

0.50 C.I.S electives at the 3000 level or above

### Summer Semester

COOP*1000 Work Term 1

### Fall Semester

COOP*2000 Work Term 2

### Semester 5 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*3760</td>
<td>Software Engineering</td>
<td>0.75</td>
</tr>
</tbody>
</table>

0.50 C.I.S electives at the 3000 level or above

1.25 credits in the Area of Application or electives

### Summer Semester

COOP*3000 Work Term 3

### Semester 6 - Fall

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credit</th>
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<tbody>
<tr>
<td>CIS*3260</td>
<td>Software Design IV</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*3750</td>
<td>System Analysis and Design in Applications</td>
<td>0.75</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*2460</td>
<td>Modelling of Computer Systems</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>Statistics I</td>
<td>0.50</td>
</tr>
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</table>

0.75 credits in the Area of Application or electives

### Winter Semester

COOP*4000 Work Term 4

### Summer Semester

COOP*5000 Work Term 5

### Semester 7 - Fall

<table>
<thead>
<tr>
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<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>CIS*4150</td>
<td>Software Reliability and Testing</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*4250</td>
<td>Software Design V</td>
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</tr>
<tr>
<td>CIS*4300</td>
<td>Human Computer Interaction</td>
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</table>

1.00 credits in the Area of Application or electives

### Semester 8 - Winter

1.50 credits in the Area of Application or electives

0.50 credits in CIS at 3000 level or above

0.50 credits in CIS at the 4000 level

---

2012-2013 Undergraduate Calendar

Last Revision: Oct. 19, 2012
Bachelor of Engineering [B.Eng.]

Program Information

Objectives of the Program

Students in this program obtain a liberal engineering education, which includes a comprehensive core of science, mathematics and engineering science that provides a strong foundation for engineering design and analysis. This enables students to undertake the solution of engineering problems in the areas of biological, biomedical, computer, engineering systems and computing, environmental, mechanical and water resources. Core subjects, combined with elective opportunities, provide an understanding of the connection between engineering and science, coupled with the interdisciplinary skills needed to address the problems and challenges faced by engineers in society today.

The curriculum includes a strong emphasis on engineering design. Students engage in engineering design throughout the program, and gain experience in computer aided design and modeling, conceptual design and physical construction. Emphasis is on teamwork and communications skills, as well as working on interdisciplinary projects.

Career opportunities are open in many segments of the economy. Examples are: consulting services to municipalities, utilities and industry; resource agencies in advisory, regulatory, planning and utilization; service industries of construction, power and water supply and public health; manufacturing, design of computer and control systems, hardware and software development; mechatronics and emerging energy systems; medical devices, pharmaceutical and food industries and industrial ergonomics; academic research and graduate studies within and without the field of engineering.

Many engineers assume management responsibilities after gaining experience in design, development and operations. The balance provided by liberal arts and engineering education allows graduates to enjoy a great deal of career mobility.

Accreditation

The baccalaureate degree programs in all engineering programs with the exception of Computer Engineering, Biomedical Engineering and Mechanical Engineering are accredited by the Canadian Engineering Accreditation Board of Engineers Canada. Graduates from accredited engineering programs have the educational requirements to apply for membership in the Professional Engineers Ontario (PEO) and other provinces after a number of years of acceptable engineering experience and successful completion of a PEO examination in engineering law and ethics.

According to CEAB regulations, the Mechanical Engineering Program is not eligible for accreditation until the first class graduates in June 2013. Computer Engineering and Biomedical Engineering will be eligible for accreditation in June 2014. However, due to the common core in all B.Eng. programs and the School’s experience with the CEAB process, the School expects to achieve accreditation for the first class of all three new programs.

Requirements of the Program

Students combine their required courses in mathematics, physical sciences and engineering with additional credits providing the opportunity for specialization in: one of the programs; complementary studies courses; and elective subjects. A minimum of 23.50 credits must be obtained for the following programs: Biological Engineering, Engineering Systems and Computing; Environmental Engineering, Mechanical Engineering, and Water Resources Engineering. A minimum of 23.25 credits must be obtained for Biomedical Engineering. A minimum of 24.00 credits must be obtained for Computer Engineering.

At least 3.00 credits must be complementary studies, which consist of courses in the social sciences, arts, management, engineering economics and communication. They complement the technical content of the curriculum. All credits are selected according to the schedule of studies for the student’s chosen program. Restrictions apply to the number of non-core credits which may be at the 1000 level. Further information on approved courses may be obtained from the B.Eng. Program Guide available from the director or program counsellor of the School of Engineering.

Programs

Entry into a specific B.Eng. program is done two ways. Students can select their desired program of study (major) at the time of application. If accepted, students will be given an offer to their program of choice. Students also have the option of selecting the Undeclared First Year (Undeclared Stream) entry point due to the similarities of first year. Students in the Undeclared Stream then normally select their specific program of study during course selection for Semester II. Students in the Undeclared stream are strongly encouraged to meet with their Program Counsellor during Semester I. The School’s Associate Director - Undergraduate Affairs or designate approve program selection during the semester add periods. There are no enrollment caps on any program, so students are free to select their programs of choice. Students wanting to make a switch in majors after the above dates are free to do so with prior approval, but will be off sequence and may be required to take additional courses.

The available programs are:

- Undeclared First Year: Students selecting this entry point are required to select one of the B.Eng. Majors at the time of course selection in Semester II.
- Biological Engineering - the application of engineering to the control and management of biological processes, environments, and human factors in engineering design.
- Biomedical Engineering - the application of engineering to health and medicine.
- Computer Engineering - the application of engineering to the design, fabrication, and testing of computing machines and computer systems.
- Engineering Systems and Computing - the application of engineering to the design, operation and management of data sensing, transmission and, processing systems, and of control systems.
- Environmental Engineering - the application of engineering to protect and restore the environment, through the prevention and treatment of gaseous, liquid and solid wastes.
- Mechanical Engineering - The application of engineering to the design, manufacturing and control of mechanical and electro-mechanical equipment, systems and devices.
- Water Resources Engineering - the application of engineering to the control and management of water and soil resources to meet human needs while sustaining the natural environment.

The schedule of studies for each program is provided below but guidance in the selection of appropriate courses is available from the program counsellor of the School of Engineering.

Additional Course Requirements

Students lacking specific subject requirements are advised to consult the Recommendations and Notes in Section IV—Admission Information-B.Eng..

Continuation of Study

Students are advised to consult the regulations for continuation of study within the program which are outlined in detail in Section VIII, Undergraduate Degree Regulation & Procedures. Students will be ineligible to continue in the B.Eng. program and will not be readmitted to the degree program if the same course is failed three times.

Normally, students in the B.Eng. program will be permitted only one supplemental privilege during their studies. It will usually be granted for 3000 or 4000 level courses only.

Conditions for Graduation

To qualify for the degree the student must complete the courses required for a B.Eng. program, obtaining a minimum of 23.50 credits for one of: Biological Engineering, Environmental Engineering, Mechanical Engineering, Engineering Systems and Computing; or 23.25 credits for Biomedical Engineering; or 24.00 credits for Computer Engineering, and must achieve an overall minimum cumulative average of at least 60% and a minimum cumulative average of at least 60% in all ENGG courses.

Co-operative Education

Students studying for the B.Eng. degree may participate in a Co-operative Education program following the completion of the first 4 semesters of study. The Co-operative Education program consists of a minimum of 4 semesters of experience in industry with employers who participate in the program. Reports and assignments are graded by a faculty supervisor with assistance from the employer. Evaluations of Co-op semesters are recorded on the student’s academic record. The Co-operative Education program provides an excellent opportunity for students to obtain work experience in industry directly related to their field of study. Interested students should consult their program counsellor.

Students wishing to participate in the Co-operative Education program should indicate their intention to do so by applying for admission to the Co-op program on entrance. Following the completion of semester 2, in-course applicants will be considered for admission to the Co-op program.

Successful applicants will:

1. have a minimum cumulative average of 70% in semesters 1 and 2
2. have successfully completed all of the credits required in the schedule of studies for semesters 1 and 2
3. be employable in Canada or be in possession of an appropriate work-permit for Co-op students
4. have obtained the approval of their Co-op advisor in the school to participate in the program.
5. continue their education in the Co-op program as planned by the student.

The Co-op advisor's approval will signify that the schedule of work semesters in the Co-op program are planned by the student. The student is enrolled in courses during each of the Fall, Winter and Summer semesters.

Undeclared First Year Entry - B.Eng. Program Regular and Co-op

X. Degree Programs, Bachelor of Engineering [B.Eng.]
Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1040</td>
<td>[0.50]</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CIS*1500</td>
<td>[0.50]</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>ENGG*1100</td>
<td>[0.75]</td>
<td>Engineering and Design I</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>[0.50]</td>
<td>Calculus I</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGG*1210</td>
<td>[0.50]</td>
<td>Engineering Mechanics I</td>
</tr>
<tr>
<td>HIST*1250</td>
<td>[0.50]</td>
<td>Science and Technology in a Global Context</td>
</tr>
</tbody>
</table>

Note: ENGG*1210 or HIST*1250 must be taken in semester 1; the remaining course must be taken in semester 2.

Semester 2 Regular or Co-op (Biological Engineering, Biomedical Engineering, Environmental Engineering, Water Resources Engineering)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
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<td>General Chemistry II</td>
</tr>
<tr>
<td>ENGG*1500</td>
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<td>Engineering Analysis</td>
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<tr>
<td>MATH*1210</td>
<td>[0.50]</td>
<td>Calculus II</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>[0.50]</td>
<td>Physics with Applications</td>
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<tr>
<td>One of:</td>
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</tr>
<tr>
<td>ENGG*1210</td>
<td>[0.50]</td>
<td>Engineering Mechanics I</td>
</tr>
<tr>
<td>HIST*1250</td>
<td>[0.50]</td>
<td>Science and Technology in a Global Context</td>
</tr>
</tbody>
</table>

Semester 2 Regular or Co-op (Computer Engineering, Engineering Systems and Computing)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CIS*2500</td>
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<td>Intermediate Programming</td>
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<tr>
<td>ENGG*1500</td>
<td>[0.50]</td>
<td>Engineering Analysis</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>[0.50]</td>
<td>Calculus II</td>
</tr>
<tr>
<td>PHYS*1010</td>
<td>[0.50]</td>
<td>Introductory Electricity and Magnetism</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>[0.50]</td>
<td>Physics with Applications</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGG*1210</td>
<td>[0.50]</td>
<td>Engineering Mechanics I</td>
</tr>
<tr>
<td>HIST*1250</td>
<td>[0.50]</td>
<td>Science and Technology in a Global Context</td>
</tr>
</tbody>
</table>

Semester 2 Regular or Co-op (Mechanical Engineering)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*1500</td>
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<td>Engineering Analysis</td>
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<tr>
<td>MATH*1210</td>
<td>[0.50]</td>
<td>Calculus II</td>
</tr>
<tr>
<td>PHYS*1010</td>
<td>[0.50]</td>
<td>Introductory Electricity and Magnetism</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>[0.50]</td>
<td>Physics with Applications</td>
</tr>
<tr>
<td>One of:</td>
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<td></td>
</tr>
<tr>
<td>ENGG*1210</td>
<td>[0.50]</td>
<td>Engineering Mechanics I</td>
</tr>
<tr>
<td>HIST*1250</td>
<td>[0.50]</td>
<td>Science and Technology in a Global Context</td>
</tr>
</tbody>
</table>

Biomedical Engineering Program Regular and Co-op (BME/BME:C)

School of Engineering, College of Physical and Engineering Science

Biomedical Engineering is a field of engineering that deals with health and medicine. (e.g.: electronic and mechanical devices used on biological materials, animals and humans, medical implants and instruments, ergonomics, bioinstrumentation, imaging and pharmacology). Graduates in Biomedical engineering are able to apply mathematical, scientific and engineering principles to a wide variety of fields and find employment across the private and public sectors of the healthcare industry. The program provides students with a common base of knowledge essential to engineering, and then allows them to select from a menu of electives to attain a degree of specialization in one of three areas, or to choose electives which broaden their general knowledge base. Elective concentrations are available in the areas of biomechanics; biosignal processing; and pharmaceuticals. The program is built around the concept of interdisciplinary application of engineering principles to health related problems.

Major (Honours Program)

Semester 1 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1040</td>
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<td>General Chemistry I</td>
</tr>
<tr>
<td>CIS*1500</td>
<td>[0.50]</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>ENGG*1100</td>
<td>[0.75]</td>
<td>Engineering and Design I</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>[0.50]</td>
<td>Calculus I</td>
</tr>
<tr>
<td>One of:</td>
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<tr>
<td>ENGG*1210</td>
<td>[0.50]</td>
<td>Engineering Mechanics I</td>
</tr>
<tr>
<td>HIST*1250</td>
<td>[0.50]</td>
<td>Science and Technology in a Global Context</td>
</tr>
</tbody>
</table>

Note: ENGG*1210 or HIST*1250 must be taken in semester 1; the remaining course must be taken in semester 2.

Semester 2 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
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<td>General Chemistry II</td>
</tr>
<tr>
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<tr>
<td>MATH*1210</td>
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<tr>
<td>ENGG*1210</td>
<td>[0.50]</td>
<td>Engineering Mechanics I</td>
</tr>
<tr>
<td>HIST*1250</td>
<td>[0.50]</td>
<td>Science and Technology in a Global Context</td>
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</table>

Semester 3 - Regular or Co-op

<table>
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<tbody>
<tr>
<td>BIOL*1070</td>
<td>[0.50]</td>
<td>Discovering Biodiversity</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>[0.00]</td>
<td>Introduction to Co-operative Education</td>
</tr>
<tr>
<td>ENGG*2120</td>
<td>[0.50]</td>
<td>Material Science</td>
</tr>
<tr>
<td>ENGG*2400</td>
<td>[0.50]</td>
<td>Engineering Systems Analysis</td>
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<tr>
<td>MATH*2270</td>
<td>[0.50]</td>
<td>Applied Differential Equations</td>
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<tr>
<td>ENGG*2100</td>
<td>[0.75]</td>
<td>Engineering and Design II</td>
</tr>
<tr>
<td>STAT*2120</td>
<td>[0.50]</td>
<td>Probability and Statistics for Engineers</td>
</tr>
</tbody>
</table>

0.50 restricted electives

Note: ENGG*2100 or STAT*2120 must be taken in semester 3; the remaining course must be taken in semester 4.

Semester 4 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
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<td>Biological Concepts of Health</td>
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<tr>
<td>BIOM*2000</td>
<td>[0.50]</td>
<td>Concepts in Human Physiology</td>
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<tr>
<td>ENGG*2230</td>
<td>[0.50]</td>
<td>Fluid Mechanics</td>
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<td>ENGG*2450</td>
<td>[0.50]</td>
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<td>Numerical Methods</td>
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<tr>
<td>ENGG*2100</td>
<td>[0.75]</td>
<td>Engineering and Design II</td>
</tr>
<tr>
<td>STAT*2120</td>
<td>[0.50]</td>
<td>Probability and Statistics for Engineers</td>
</tr>
</tbody>
</table>

Note: Students pursuing the pharmaceutical series of electives may select ENGG*2660 in Semester 4. If ENGG*2660 is selected, students must select BIOM*2000 in semester 5 in place of the 0.30 restricted elective.

Semester 5 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM*3010</td>
<td>[0.50]</td>
<td>Comparative Mammalian Anatomy</td>
</tr>
<tr>
<td>ENGG*3170</td>
<td>[0.50]</td>
<td>Biomaterials</td>
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<td>ENGG*3240</td>
<td>[0.50]</td>
<td>Engineering Economics</td>
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<td>ENGG*3260</td>
<td>[0.50]</td>
<td>Thermodynamics</td>
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<tr>
<td>ENGG*3450</td>
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<tr>
<td>ENGG*4390</td>
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<td>Bio-instrumentation Design</td>
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2.00 restricted electives

Semester 6 Regular / Semester 7 Co-op

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<th>Course Title</th>
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<tbody>
<tr>
<td>ENGG*3100</td>
<td>[0.75]</td>
<td>Engineering and Design III</td>
</tr>
<tr>
<td>ENGG*3410</td>
<td>[0.50]</td>
<td>Systems and Control Theory</td>
</tr>
<tr>
<td>PATH*3610</td>
<td>[0.50]</td>
<td>Principles of Disease</td>
</tr>
<tr>
<td>One of:</td>
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<td></td>
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</tbody>
</table>

1.50 restricted electives

Semester 7 Regular / Semester 6 Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*4300</td>
<td>[1.00]</td>
<td>Biomedical Engineering Design IV</td>
</tr>
</tbody>
</table>

1.25 restricted electives

Restricted Electives (see Program Guide for more information)

A maximum of 1.50 credits at the 1000 level is allowed for elective requirements

• 2.00 credits in Complementary Studies (Students need to take 0.50 credits from each of the three sub-lists noted in the Program Guide. The remaining 0.50 credits can be taken from any Complementary Studies sub-list.)

• 0.75 credits in Biomedical Engineering design electives

• 3.00 credits in Biomedical Engineering electives

Biological Engineering Program Regular and Co-op (BIOE/BIOE:C)

School of Engineering, College of Physical and Engineering Science

Students interested in problems requiring the application of knowledge from both the biological sciences and engineering will find a challenge as a Biological Engineer. This field of engineering relates to the control of technological processes with the aim of enhancing human, animal and plant life. The program encompasses the technologies of biotechnology, waste management, food engineering, and ergonomics. For example, a Biological Engineer concentrating on biotechnology might design and manage bioreactors to improve their productivity. A career in Biomedical Engineering, which requires graduate work beyond the Bachelor's degree, involves designing instruments and diagnostic techniques to be used in the practice of medicine, developing prosthetic devices, and applying engineering techniques to the study of physiological systems.

Major (Honours Program)

Semester 1 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1040</td>
<td>[0.50]</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CIS*1500</td>
<td>[0.50]</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>ENGG*1100</td>
<td>[0.75]</td>
<td>Engineering and Design I</td>
</tr>
<tr>
<td>MATH*1200</td>
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<td>Calculus I</td>
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<td>One of:</td>
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</tr>
<tr>
<td>ENGG*1210</td>
<td>[0.50]</td>
<td>Engineering Mechanics I</td>
</tr>
<tr>
<td>HIST*1250</td>
<td>[0.50]</td>
<td>Science and Technology in a Global Context</td>
</tr>
</tbody>
</table>

Note: ENGG*1210 or HIST*1250 must be taken in semester 1; the remaining course must be taken in semester 2.
### Computer Engineering Program Regular and Co-op (CENG/CENG:C)

**School of Engineering, College of Physical and Engineering Science**

Computer Engineering is a field of engineering that focuses on the design and organization of computer systems. Graduates in Computer Engineering are able to apply mathematical, scientific and engineering principles to design and integrate computer systems suitable for applications in a wide range of fields. The program provides students with a common base of knowledge essential to computer engineering and then allows them to select from a menu of electives to attain a degree of specialization in one of four areas or to choose electives to broaden their knowledge base. Elective concentrations are available in areas of Electronic Design automation, Software Design, Artificial Intelligence and Robotics, and Microsystems.

### Major (Honours Program)

#### Semester 1 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>ENGG*1500</td>
<td>0.50</td>
<td>Engineering Analysis</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>0.50</td>
<td>Calculus II</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>0.50</td>
<td>Physics with Applications</td>
</tr>
</tbody>
</table>

One of:

- ENGG*1210[0.50] Engineering Mechanics I
- HIST*1250[0.50] Science and Technology in a Global Context

#### Semester 2 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*1100</td>
<td>0.00</td>
<td>Introduction to Co-operative Education</td>
</tr>
<tr>
<td>ENGG*2120</td>
<td>0.50</td>
<td>Material Science</td>
</tr>
<tr>
<td>ENGG*2160</td>
<td>0.50</td>
<td>Engineering Mechanics II</td>
</tr>
<tr>
<td>ENGG*2400</td>
<td>0.50</td>
<td>Engineering Systems Analysis</td>
</tr>
<tr>
<td>MATH*2270</td>
<td>0.50</td>
<td>Applied Differential Equations</td>
</tr>
</tbody>
</table>

One of:

- BIOL*1070[0.50] Discovering Biodiversity
- BIOL*1090[0.50] Introduction to Molecular and Cellular Biology

One of:

- ENGG*2100[0.75] Engineering and Design II
- STAT*2120[0.50] Probability and Statistics for Engineers

**Note:** ENGG*2100 or STAT*2120 must be taken in semester 3; the remaining course must be taken in semester 4.

#### Semester 3 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>COOP*2590</td>
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<td>Introduction to Biochemistry</td>
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<td>ENGG*2230</td>
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<td>Fluid Mechanics</td>
</tr>
<tr>
<td>ENGG*2450</td>
<td>0.50</td>
<td>Electric Circuits</td>
</tr>
<tr>
<td>ENGG*2660</td>
<td>0.50</td>
<td>Biological Engineering Systems I</td>
</tr>
<tr>
<td>MATH*2130</td>
<td>0.50</td>
<td>Numerical Methods</td>
</tr>
</tbody>
</table>

One of:

- ENGG*2100[0.75] Engineering and Design II
- STAT*2120[0.50] Probability and Statistics for Engineers

#### Semester 4 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIOL*1080</td>
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<td>Biological Concepts of Health</td>
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<td>ENGG*3160</td>
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<td>Biological Engineering Systems II</td>
</tr>
<tr>
<td>ENGG*3170</td>
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<td>Biomaterials</td>
</tr>
<tr>
<td>ENGG*3240</td>
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<td>Engineering Economics</td>
</tr>
<tr>
<td>ENGG*3260</td>
<td>0.50</td>
<td>Thermodynamics</td>
</tr>
<tr>
<td>ENGG*3450</td>
<td>0.50</td>
<td>Electrical Devices</td>
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</table>

#### Semester 5 Regular / Semester 7 Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGG*3110</td>
<td>0.75</td>
<td>Engineering and Design III</td>
</tr>
<tr>
<td>ENGG*3410</td>
<td>0.50</td>
<td>Systems and Control Theory</td>
</tr>
<tr>
<td>ENGG*3430</td>
<td>0.50</td>
<td>Heat and Mass Transfer</td>
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</table>

1.00 restricted electives

#### Semester 6 Regular / Semester 6 Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGG*4390</td>
<td>0.75</td>
<td>Bio-instrumentation Design</td>
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2.75 restricted electives

#### Semester 8 (Winter) - Regular or Co-op

<table>
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<th>Course Code</th>
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<tr>
<td>ENGG*4110</td>
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<td>Biological Engineering Design IV</td>
</tr>
<tr>
<td>ENGG*4280</td>
<td>0.75</td>
<td>Digital Process Control Design</td>
</tr>
</tbody>
</table>

1.00 restricted electives

#### Restricted Electives (see Program Guide for more information)

A maximum of 1.50 credits at the 1000 level is allowed for elective requirements.

- 2.00 credits in Complementary Studies (Students need to take 0.50 credits from each of the three sub-lists noted in the Program Guide. The remaining 0.50 credits can be taken from any Complementary Studies sub-list.)
- 0.75 credits in required Design electives
- 1.00 credits in Biological Engineering electives
- 1.00 credits in Free electives

---

**Computer Engineering Program Regular and Co-op (CENG/CENG:C)**

*Last Revision: Oct. 19, 2012*
In the last quarter century, the computer has grown so rapidly in importance that engineering, science, business and industry could not function without it. With this growth, a need has evolved for specialists who can incorporate computers and information into complex industrial processes. The Engineering Systems and Computing program has been conceived to satisfy this need. Graduates from this program will have, in addition to the basic engineering skills, the ability to identify application areas where computer technology represents the optimum solution, specify appropriate software for process control, data reduction and/or expert system implementation and integrate the computer into the overall system application.

**Major (Honours Program)**

### Semester 1 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CIS*1500</td>
<td>0.50</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>ENGG*1100</td>
<td>0.75</td>
<td>Engineering and Design I</td>
</tr>
<tr>
<td>MATH*1200</td>
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<td>Calculus I</td>
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One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>ENGG*1210</td>
<td>0.50</td>
<td>Engineering Mechanics I</td>
</tr>
<tr>
<td>HIST*1250</td>
<td>0.50</td>
<td>Science and Technology in a Global Context</td>
</tr>
</tbody>
</table>

**Note:** ENGG*1210 or HIST*1250 must be taken in semester 1; the remaining course must be taken in semester 2.

### Semester 2 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>CIS*2500</td>
<td>0.50</td>
<td>Intermediate Programming</td>
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<tr>
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<td>Engineering Analysis</td>
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<td>Calculus II</td>
</tr>
<tr>
<td>PHYS*1010</td>
<td>0.50</td>
<td>Introductory Electricity and Magnetism</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>0.50</td>
<td>Physics with Applications</td>
</tr>
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</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ENGG*1210</td>
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<td>Engineering Mechanics I</td>
</tr>
<tr>
<td>HIST*1250</td>
<td>0.50</td>
<td>Science and Technology in a Global Context</td>
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</table>

**Note:** ENGG*1210 or HIST*1250 must be taken in semester 1; the remaining course must be taken in semester 2.

### Semester 3 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CIS*2430</td>
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<td>Object Oriented Programming</td>
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<td>COOP*1100</td>
<td>0.50</td>
<td>Introduction to Co-operative Education</td>
</tr>
<tr>
<td>ENGG*2120</td>
<td>0.50</td>
<td>Material Science</td>
</tr>
<tr>
<td>ENGG*2400</td>
<td>0.50</td>
<td>Engineering Systems Analysis</td>
</tr>
<tr>
<td>ENGG*2410</td>
<td>0.50</td>
<td>Digital Systems Design Using Descriptive Languages</td>
</tr>
<tr>
<td>MATH*2270</td>
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<td>Applied Differential Equations</td>
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One of:

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<tr>
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<th>Course Name</th>
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<tbody>
<tr>
<td>ENGG*2100</td>
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<td>Engineering and Design II</td>
</tr>
<tr>
<td>STAT*2120</td>
<td>0.50</td>
<td>Probability and Statistics for Engineers</td>
</tr>
</tbody>
</table>

**Note:** ENGG*2100 or STAT*2120 must be taken in semester 3; the remaining course must be taken in semester 4.

### Semester 4 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*3110</td>
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<td>Operating Systems I</td>
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<tr>
<td>ENGG*2230</td>
<td>0.50</td>
<td>Fluid Mechanics</td>
</tr>
<tr>
<td>ENGG*2450</td>
<td>0.50</td>
<td>Electric Circuits</td>
</tr>
<tr>
<td>MATH*2130</td>
<td>0.50</td>
<td>Numerical Methods</td>
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</table>

0.50 restricted electives

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*2100</td>
<td>0.75</td>
<td>Engineering and Design II</td>
</tr>
<tr>
<td>STAT*2120</td>
<td>0.50</td>
<td>Probability and Statistics for Engineers</td>
</tr>
</tbody>
</table>

### Semester 5 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*2520</td>
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<td>Data Structures</td>
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<tr>
<td>ENGG*3260</td>
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<td>Thermodynamics</td>
</tr>
<tr>
<td>ENGG*3390</td>
<td>0.50</td>
<td>Signal Processing</td>
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<tr>
<td>ENGG*3450</td>
<td>0.50</td>
<td>Electrical Devices</td>
</tr>
<tr>
<td>ENGG*3640</td>
<td>0.50</td>
<td>Microcomputer Interfacing</td>
</tr>
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</table>

0.50 restricted electives

### Semester 6 - Regular / Semester 7 - Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ENGG*3100</td>
<td>0.75</td>
<td>Engineering and Design III</td>
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<tr>
<td>ENGG*3410</td>
<td>0.50</td>
<td>Systems and Control Theory</td>
</tr>
<tr>
<td>ENGG*3430</td>
<td>0.50</td>
<td>Heat and Mass Transfer</td>
</tr>
</tbody>
</table>

1.00 or 1.25 restricted electives

### Semester 7 - Regular / Semester 6 - Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*3240</td>
<td>0.50</td>
<td>Engineering Economics</td>
</tr>
<tr>
<td>ENGG*4420</td>
<td>0.75</td>
<td>Real-time Systems Design</td>
</tr>
<tr>
<td>ENGG*4450</td>
<td>0.50</td>
<td>Large-Scale Software Architecture Engineering</td>
</tr>
</tbody>
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1.00 or 1.25 restricted electives

### Semester 8 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*4120</td>
<td>1.00</td>
<td>Engineering Systems and Computing Design IV</td>
</tr>
<tr>
<td>ENGG*4280</td>
<td>0.75</td>
<td>Digital Process Control Design</td>
</tr>
</tbody>
</table>

1.00 elective

### Restricted Electives (see Program Guide for more information)

A maximum of 1.50 credits at the 1000 level is allowed for elective requirements.
ENGG*4370 [0.75] Urban Water Systems Design
0.50 restricted electives

Semester 8 - Regular or Co-op
ENGG*4130 [1.00] Environmental Engineering Design IV
ENGG*4260 [0.75] Water and Wastewater Treatment Design
ENVS*3060 [0.50] Groundwater
0.50 restricted electives

Restricted Electives (see Program Guide for more information)
A maximum of 1.50 credits at the 1000 level is allowed for elective requirements.

• 2.00 credits in Complementary Studies (Students need to take 0.50 credits from each of the three sub-lists noted in the Program Guide. The remaining 0.50 credits can be taken from any Complementary Studies sub-list.)

• 1.50 credits in Environmental Engineering electives

Minor (Honours Program)
Students must be registered in the B.Eng degree program to apply for a minor in Environmental Engineering.
The minor can be satisfied by taking the following additional courses:

BIOC*2580 [0.50] Introduction to Biochemistry
CHEM*3360 [0.50] Environmental Chemistry and Toxicology
ENGG*3180 [0.50] Air Quality
ENGG*3590 [0.50] Water Quality
ENGG*4260 [0.75] Water and Wastewater Treatment Design
GEOG*1300 [0.50] Introduction to the Biophysical Environment
MICR*1020 [0.50] Fundamentals of Applied Microbiology
MICR*4180 [0.50] Microbial Processes in Environmental Management

One of:
ENGG*2560 [0.50] Environmental Engineering Systems
ENGG*2660 [0.50] Biological Engineering Systems I

One of:
ENGG*3470 [0.50] Mass Transfer Operations
ENGG*4330 [0.75] Air Pollution Control
ENGG*4340 [0.50] Solid and Hazardous Waste Management

Students must incorporate an environmental application as part of their capstone design course worth 1.00 credits in the final semester of their B.Eng major program.

Food Engineering (ENGF)
School of Engineering, College of Physical and Engineering Science

Minor (Honours Program)
Students must be registered in the B.Eng degree program to apply for a Minor in Food Engineering.
The minor can be satisfied by taking the following additional courses:

ACCT*2220 [0.50] Financial Accounting
BIOC*2580 [0.50] Introduction to Biochemistry
ENGG*2660 [0.50] Biological Engineering Systems I
ENGG*3380 [0.50] Bio-Process Engineering
FOOD*2150 [0.50] Introduction to Nutritional and Food Science
MICR*1020 [0.50] Fundamentals of Applied Microbiology

One of:
ENGG*4300 [0.75] Food Processing Engineering Design
ENGG*4380 [0.75] Bioreactor Design

Two of:
FOOD*4070 [0.50] Food Packaging
FOOD*4110 [0.50] Meat and Poultry Processing
MCS*3010 [0.50] Quality Management

One of:
FOOD*3160 [0.75] Food Processing I
FOOD*4520 [0.50] Utilization of Cereal Grains for Human Food

One of:
FOOD*2400 [0.50] Introduction to Food Chemistry
FOOD*3010 [0.50] Food Chemistry
FOOD*3230 [0.75] Food Microbiology
FOOD*3260 [0.50] Industrial Microbiology

*Students must incorporate a food engineering application as part of their capstone design course worth 1.00 credits in the final semester of their B.Eng major program.

NOTE: Courses taken for the minors are credited to appropriate elective areas.

Mechanical Engineering Program Regular and Co-op
(MECH/MECH:C)
School of Engineering, College of Physical and Engineering Science

Mechanical Engineering at Guelph is built around concepts of sustainability and sustainable design to equip graduates to tackle issues associated with emerging technologies. Graduates in mechanical engineering are able to apply mathematical, scientific and engineering principles to a wide variety of fields and find employment across the private and public sectors. The program provides students with a common base of knowledge essential to mechanical engineering, and then allows them to select from a menu of electives to attain a degree of specialization in one of five areas, or to choose electives which broaden their general knowledge base. Elective concentrations are available in the areas of wind and solar energy, food and beverage engineering, mechatronics, manufacturing system design and biomechanics.

Major (Honours Program)
Semester 1 - Regular or Co-op

CHEM*1040 [0.50] General Chemistry I
CIS*1500 [0.50] Introduction to Programming
ENGG*1100 [0.75] Engineering and Design I
MATH*1200 [0.50] Calculus I

One of:
ENGG*1210 [0.50] Engineering Mechanics I
HIST*1250 [0.50] Science and Technology in a Global Context

Note: One of ENGG*1210 and HIST*1250 must be taken in semester 1; the remaining course must be taken in semester 2.

Semester 2 - Regular or Co-op
ENGG*1500 [0.50] Engineering Analysis
MATH*1210 [0.50] Calculus II
PHYS*1010 [0.50] Introductory Electricity and Magnetism
PHYS*1130 [0.50] Physics with Applications

One of:
ENGG*1210 [0.50] Engineering Mechanics I
HIST*1250 [0.50] Science and Technology in a Global Context

Semester 3 - Regular or Co-op

COOP*1100 [0.00] Introduction to Co-operative Education
ENGG*2120 [0.50] Material Science
ENGG*2160 [0.50] Engineering Mechanics II
ENGG*2400 [0.50] Engineering Systems Analysis
ENGG*3240 [0.50] Engineering Economics
MATH*2270 [0.50] Applied Differential Equations

One of:
ENGG*2100 [0.75] Engineering and Design II
STAT*2120 [0.50] Probability and Statistics for Engineers

Note: ENGG*2100 or STAT*2120 must be taken in semester 3; the remaining course must be taken in semester 4.

Semester 4 - Regular or Co-op
ENGG*2230 [0.50] Fluid Mechanics
ENGG*2340 [0.50] Kinematics and Dynamics
ENGG*2450 [0.50] Electric Circuits
MATH*2130 [0.50] Numerical Methods

One of:
ENGG*2100 [0.75] Engineering and Design II
STAT*2120 [0.50] Probability and Statistics for Engineers
0.50 restricted electives

Semester 5 - Regular or Co-op
ENGG*2410 [0.50] Digital Systems Design Using Descriptive Languages
ENGG*3260 [0.50] Thermodynamics
ENGG*3280 [0.75] Machine Design
ENGG*3450 [0.50] Electrical Devices
ENGG*3510 [0.50] Electromechanical Devices
0.50 restricted electives

Semester 6 - Regular / Semester 7 - Co-op
ENGG*3070 [0.25] Occupational Health and Safety
ENGG*3100 [0.75] Engineering and Design III
ENGG*3370 [0.50] Applied Fluids and Thermodynamics
ENGG*3410 [0.50] Systems and Control Theory
ENGG*3430 [0.50] Heat and Mass Transfer
0.50 restricted electives

Semester 7 - Regular / Semester 6 - Co-op
2.50 restricted electives

Semester 8 - Regular or Co-op
ENGG*4160 [1.00] Mechanical Engineering Design IV
2.25 restricted electives

Restricted Electives (see Program Guide for more information)
A maximum of 1.50 credits at the 1000 level is allowed for elective requirements.

• 2.00 credits in Complementary Studies (Students need to take 0.50 credits from each of the three sub-lists noted in the Program Guide. The remaining 0.50 credits can be taken from any Complementary Studies sub-list.)

Last Revision: Oct. 19, 2012
0.75 credits in Mechanical Engineering Design electives.

A minimum of 3.50 credits in Mechanical Engineering electives. Specific credit requirements vary by the mechanical engineering design elective chosen. Please consult the Program Guide for further information on the prerequisite requirements specific to each mechanical engineering design elective.

Water Resources Engineering Program Regular and Co-op (WRE/WRE:C)

School of Engineering, College of Physical and Engineering Science

Water resources engineering focuses on the use and management of land and water resources in rural and urban watersheds. The hydrologic and hydraulic behaviour of watershed flow systems is combined with engineering science and ecological principles in the design of water management systems and strategies. Water management includes flood prevention, warning and control; drainage; design of natural channels; irrigation; and erosion prevention and control. The supply of water for municipal, industrial and agricultural purposes is considered in the context of resource conservation. Identification of potential point and diffused sources of pollutants is used to develop efficient, environmentally sustainable and economical methods to preserve high-quality water to sustain human life and water-dependent ecosystems.

Major (Honours Program)

Semester 1 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
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<tr>
<td>CIS*1500</td>
<td>0.50</td>
<td>Introduction to Programming</td>
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<td>ENGG*1100</td>
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<td>MATH*1200</td>
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<td>Calculus I</td>
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<tr>
<td>ENGG*1210</td>
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<td>Engineering Mechanics I</td>
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<tr>
<td>HIST*1250</td>
<td>0.50</td>
<td>Science and Technology in a Global Context</td>
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Note: One of ENGG*1210 and HIST*1250 must be taken in semester 1; the remaining course must be taken in semester 2.

Semester 2 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>CHEM*1050</td>
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<td>ENGG*1500</td>
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<td>Engineering Analysis</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>0.50</td>
<td>Calculus II</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>0.50</td>
<td>Physics with Applications</td>
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<td></td>
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<tr>
<td>ENGG*1210</td>
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</tr>
<tr>
<td>HIST*1250</td>
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<td>Science and Technology in a Global Context</td>
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Semester 3 - Regular or Co-op

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>COOP*1100</td>
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<td>Introduction to Co-operative Education</td>
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<tr>
<td>ENGG*2120</td>
<td>0.50</td>
<td>Material Science</td>
</tr>
<tr>
<td>ENGG*2400</td>
<td>0.50</td>
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</tr>
<tr>
<td>GEOG*2000</td>
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<td>Geomorphology</td>
</tr>
<tr>
<td>MATH*2270</td>
<td>0.50</td>
<td>Applied Differential Equations</td>
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</tr>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
<tr>
<td>MICR*2420</td>
<td>0.50</td>
<td>Introduction to Microbiology</td>
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<tr>
<td>ENGG*2100</td>
<td>0.75</td>
<td>Engineering and Design II</td>
</tr>
<tr>
<td>STAT*2120</td>
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<td>Probability and Statistics for Engineers</td>
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Note: ENGG*2100 or STAT*2120 must be taken in semester 3; the remaining course must be taken in semester 4.

Semester 4 - Regular or Co-op

<table>
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<tr>
<td>ENGG*2230</td>
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<td>Fluid Mechanics</td>
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<td>ENGG*2450</td>
<td>0.50</td>
<td>Electric Circuits</td>
</tr>
<tr>
<td>ENGG*2550</td>
<td>0.50</td>
<td>Water Management</td>
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<tr>
<td>ENGG*2560</td>
<td>0.50</td>
<td>Environmental Engineering Systems</td>
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<tr>
<td>MATH*2130</td>
<td>0.50</td>
<td>Numerical Methods</td>
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<tr>
<td>ENGG*2100</td>
<td>0.75</td>
<td>Engineering and Design II</td>
</tr>
<tr>
<td>STAT*2120</td>
<td>0.50</td>
<td>Probability and Statistics for Engineers</td>
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Semester 5 - Regular or Co-op

<table>
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<tr>
<td>ENGG*3240</td>
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<td>ENGG*3260</td>
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<td>ENGG*3590</td>
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<td>ENGG*3650</td>
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<td>Hydrology</td>
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Semester 6 - Regular / Semester 7 - Co-op

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<tr>
<td>ENGG*3100</td>
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<td>Engineering and Design III</td>
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<tr>
<td>ENGG*3430</td>
<td>0.50</td>
<td>Heat and Mass Transfer</td>
</tr>
<tr>
<td>ENV*3060</td>
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Semester 7 - Regular / Semester 6 - Co-op

<table>
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<tbody>
<tr>
<td>ENGG*3340</td>
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<td>Geographic Information Systems in Environmental Engineering</td>
</tr>
<tr>
<td>ENGG*3460</td>
<td>0.75</td>
<td>Soil-Water Conservation Systems Design</td>
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<tr>
<td>ENGG*370</td>
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Semester 8 (Winter) Regular or Co-op

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<td>ENGG*4150</td>
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<td>Water Resources Engineering Design IV</td>
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<tr>
<td>ENGG*4250</td>
<td>0.75</td>
<td>Watershed Systems Design</td>
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<tr>
<td>1.00 restricted electives</td>
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<td></td>
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</table>

Note: ENGG*4250 can be taken in Semester 6

Restricted Electives (see Program Guide for more information)

A maximum of 1.50 credits at the 1000 level is allowed for elective requirements.

- 2.00 credits in Complementary Studies (Students need to take 0.50 credits from each of the three sub-lists noted in the Program Guide. The remaining 0.50 credits can be taken from any Complementary Studies sub-list.)
- 1.00 credits in Water Resources Engineering electives
- 0.50 credits in Environmental Resources electives
- 0.50 credits in Water Resources electives

2012-2013 Undergraduate Calendar

X. Degree Programs, Bachelor of Engineering [B.Eng.]
Bachelor of Landscape Architecture (B.L.A.)

Landscape Architecture is the art and science of designing and conserving land and water for human use and enjoyment. As a profession, Landscape Architecture is concerned with two scales of planning and design.

The first scale is with the development of specific sites for residential, recreational, institutional, commercial and industrial projects. The second scale pertains to the regional landscape where the issues include management plans for forest, park and recreation areas, agricultural lands protection, gravel pit mining and restoration, hazard land studies, and visual resource analysis.

Program Information

Objectives of the Program

Landscape Architecture is a diverse and rewarding design profession. Landscape architects play an important role in shaping our environment, working in collaboration with other design professionals, specialists and the public.

Students in the B.L.A. program attain professional knowledge and skill that prepares them to deal with problems that concern the interface between people and the environment. Program emphasis is on core professional knowledge domains that include landscape analysis, design, implementation, communication, history and professional practice. Additional required and elective courses in the arts and sciences provide a well-rounded education.

Grades of the program have exciting careers in the public and private sector. As landscape architects, they design memorable places that are attractive, functional, and sustainable and that affect the way our cities, suburbs, rural and wilderness areas are planned, designed and managed.

Accreditation

The Bachelor of Landscape Architecture program is accredited by the Canadian Society of Landscape Architects (CSLA) accreditation is recognized by the American Society of Landscape Architects, C.S.L.A. accreditation is recognized by the American Society of Landscape Architects (ASLA). Graduates of accredited landscape architecture programs have the educational qualifications to apply for membership in provincial and state professional associations in Canada and the United States after completion of the required number of years of professional practice and successful completion of required examinations.

Admission to the Landscape Architecture Program

Students wishing to enter the program of study leading to the Bachelor of Landscape Architecture degree should consult Section IV--Admission Information.

Degree

The degree granted for the successful completion of the program is the Bachelor of Landscape Architecture (B.L.A.).

Selection of Electives

All electives may be chosen independently although counselling with the departmental advisor is highly recommended. In selecting electives two approaches may be followed: 1) electives may be chosen from a variety of disciplines to achieve breadth of knowledge or, 2) all or most electives may be chosen in a subject area in order to pursue a particular field of interest in depth. Some of these fields might include agricultural and biological sciences, environmental studies, studio arts, geography, geography, philosophy or sociology.

Students wishing to select a permissible substitute shall do so in consultation with their departmental advisor. A substitute course will normally be in the same academic area as that listed in the Landscape Architecture Program.

The following elective courses in Landscape Architecture are available. Refer to course descriptions for scheduling information.

LARC*3500 [0.50] Independent Study
LARC*4520 [0.50] Park and Recreation Administration
LARC*4730 [0.50] Special Study in Landscape Architecture
LARC*4740 [0.50] Case Studies

Academic Advising

Students can consult the BLA Coordinator who is a faculty member that can address program issues and individual curriculum queries.

Computers

Expertise in many aspects of computer application is now a fundamental skill for the profession. Recognizing this, the school provides computer facilities in the building. If it is feasible we recommend that students acquire their own computer within the first two years of the program.

Field Trips

Participation in organized visits to site study areas and project sites is obligatory for all students taking certain courses in landscape architecture. To the extent that it is possible, students will be informed of the dates, destinations and cost of field trips prior to registration. Students who have reason to seek exemption from the requirement may apply to the director prior to registration for permission to substitute papers on appropriate topics.

Pre-Professional Experience

It is considered highly advisable that the prospective graduate prepare for later professional practice through summer employment in the landscape industry. Two summers spent in landscape related work followed by 1 summer in a professional office is considered to be a desirable sequence of employment.

Continuation of Study

Students are advised to consult the regulations for continuation of study within the program which are outlined in detail in Section VIII--Undergraduate Degree Regulations & Procedures.

Conditions for Graduation

In order to qualify for graduation from the 8 semester Honours B.L.A. program, the student must successfully complete all of the courses approved for the program (20.00 credits).

Schedule of Studies

Major (Honours Program)

Semester 1

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
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<td>PHIL*1010</td>
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<td>PSYC*1000</td>
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<tr>
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Semester 2

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<td>LARC*2420</td>
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<td>PHIL*2070</td>
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0.50 electives

Semester 3

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0.50 electives

Semester 4

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<tr>
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<tr>
<td>LARC*3430</td>
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0.50 Social Science elective

*Note: A "Social Science" elective can be any course in the following areas: Anthropology, Economics, Geography, Women's Studies, International Development, Political Science, Psychology or Sociology.

Semester 5

<table>
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<td>LARC*4610</td>
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</table>

0.50 electives

Semester 6

Choose one of the following three options:

Option 1

2.00 electives

Option 2

LARC*4620 [1.00] Internship in Landscape Architecture

1.00 electives

Option 3

Exchange Program (2.00 credits)

Semester 7

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0.50 electives

Semester 8

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</tr>
<tr>
<td>LARC*4710</td>
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0.50 electives
Bachelor of Science (B.Sc.)

The University of Guelph offers general and honours programs leading to the B.Sc. degree. The general program consists of a minimum of 15.00 credits (usually 30 semester courses) involving normally 6 semesters of study. The requirements for the honours program is a minimum of 20.00 credits (usually 40 semester courses) which may be obtained over 8 semesters of study. Some majors may require more than 20.00 credits.

The Three Semester System

Most of the B.Sc. programs operate on the three semester system. In this system each of the Fall, Winter and Summer semesters is of 12 weeks duration. Two semesters are equivalent to 1 academic year at a university on the traditional system. In the three semester system, students may vary their rate of progress towards graduation. However, since many science courses must be taken in a certain sequence and not all courses are offered each semester, most science students are required to proceed from semester to semester in restricted patterns. Furthermore, the advanced courses of the honours programs are offered only in the regular fall and winter semesters.

Additional information may be obtained from Admissions Services, Office of Registrarial Services. The three-semester system and the pass-by-course method of advancement allow considerable flexibility of program arrangement. In addition, a variety of program contents is available which the student may modify to meet individual requirements.

Transfer from One B.Sc. Program to Another

On entrance to the B.Sc. program, the student may elect to follow an intended area of specialization or to postpone this decision until a later semester. The choice of a particular program of study may be most effectively made at the end of Semester 3 or 4. Judicious selection of courses in each and every semester will allow the easiest transfer between programs without incurring the need for additional semesters of study. The program counsellor of the particular college from which it is anticipated that the majority of science courses will be taken should be consulted for advice.

Program Information

General Program Requirements

The general B.Sc. degree requires the successful completion of 15.00 required credits. Normally 2.50 credits (usually 5 courses) are taken in each semester so that the degree may be completed in 6 semesters. The general science program is designed to give a broad general training in biological science, chemistry, physics and mathematical science. This is achieved by requiring each student to take a minimum of 1.00 credits in each of the above areas and an additional 0.50 credits in three of the four above areas. The courses to be taken in semesters 4 to 6 may be selected to allow a broad study of the sciences from the list of approved electives for B.Sc. students.

Honours Program Requirements

In order to graduate in the honours program, students must fulfill all program requirements for the program and have achieved a 60%, or higher, cumulative average over all course attempts. Normally 2.50 credits (usually 5 courses) are taken in each semester so that the degree may be completed in generally 8 semesters. The following types of honours programs are offered:

Honours Major Programs

Major in a subject
Major in a subject with a minor or a second major

Honours Major

These programs permit a student to study science in greater depth than is permitted by the general program. The student is required to take a minimum of 1.00 credits (usually 2 courses) in each of biological science, chemistry, physics and mathematical science. In each of semesters 3 to 8, students select science credits so that the total program provides a broad science training with concentration in an area of physical science or biological science.

A major normally consists of certain prescribed courses (minimum of 8.00 credits) and a number of elective courses to complete the requirements for the degree. The composition of science courses selected must contain a sufficient number (minimum of 6.00 credits) of 3000 and 4000 level courses including a grouping (minimum of 2.00 credits) particularly at the 4000 level. A major program may be studied in conjunction with a minor in an area of science, humanities or social science.

Honours Minor

A minor is a group of courses which provides for exposure to and mastery of the fundamental principles of a subject. A minor consists of a minimum of 5.00 credits (normally 10 courses). It may also require certain other courses from other areas to be taken along with the specified courses of the minor. A minor is taken in conjunction with a major.

Students should seek advice from the program counsellor of either the College of Biological Science or the College of Physical and Engineering Science dependent upon their primary area(s) of interest. Refer to B.Sc. Program Requirements: Regulation 6. Double-Counting of Credits.

B.Sc. Program Requirements

Regulations 1, 2, 3 and 4 apply to all B.Sc. students.

1. Entry Credits

In general, the 4U /grade 12 credit or its equivalent is required in a subject area to allow entrance to the initial university course. Students who lack this requirement can remedy the deficiency by successful completion of:

BIOL*1020 for students lacking biology
CHEM*1060 for students lacking chemistry
PHYS*1020 for students lacking physics

If more than one of the above courses is taken, students are required to complete additional credits beyond the minimum total required for the degree.

2. 1st Year Science Core

In each of the first 2 semesters B.Sc. students must take one (1) of the specified courses in each of biology, chemistry, physics and mathematical science, and 1 other course which is normally an Arts or Social Science elective.

3. 1000 Level Credits

If more than 7.00 credits at the 1000 level are completed, students are required to complete additional credits beyond the minimum total required for the degree.

4. 3000 and 4000 Level Credits

There is a requirement for a minimum of 6.00 science credits at the 3000- and 4000-levels with a minimum of 2.00 credits at the 4000 level.

5. Science Credits

A minimum of 16.00 science credits (usually 32 courses) is required for the honours major program. The inclusion of a minor in a non-science area involves the reduction to 14.00 science credits (usually 28 courses) with the approval of the program counsellors.

Acceptable science courses in the following programs means “acceptable to the B.Sc. Program Committee”. Lists of acceptable courses are available in the offices of the faculty advisors and the program counsellors and on the world wide web at the following address: http://www.bsc.uoguelph.ca/Approvals/electives.shtml

6. 6. Double-Counting of Credits

A maximum of 2.00 credits required in a major program may be applied to meet the requirements of a minor or an additional major.

For a completed minor in a non B.Sc. area, students can apply up to 1.00 credits, from their minor, at the 3000/4000 level towards the 6.00 credits a t the 3000/4000 level required for the degree.

7. Continuation of Study

Students are advised to consult the regulations for continuation of study outlined in detail in Section VIII--Undergraduate Degree Regulations & Procedures.

Doctor of Veterinary Medicine.

Students in the B.Sc. program who intend to apply for admission to the Doctor of Veterinary Medicine program should register for the Major Biological Science or Major Physical Science program, or the major of their choice. Prospective candidates for the D.V.M. program should consult the admission requirements for the program. Students may obtain assistance in selecting a program that will meet the requirements for the Doctor of Veterinary Program and for continuation in biological or physical science programs by consulting the appropriate Program Counsellor.

General Program (BSCG)

Continuation of Study

Students are advised to consult the regulations for continuation of study within the program which are outlined in detail in Section VIII--Undergraduate Degree Regulations & Procedures.

Conditions for Graduation

In order to qualify for graduation from the general program the student is required to attain a passing grade in a minimum of 15.00 required credits as outlined in the Total Course Requirements for all students in the General Science Program and have achieved a minimum cumulative average of 50%.

Total Course Requirements for all Students in the General Science Program

Total of 15.00 credits as follows:

1. 4.00 credits from the first year science core - 1.00 credits beyond the 4U/ grade 12 level in each of biological science, chemistry, mathematical science, physics. Note: A maximum of 7.00 credits at the 1000 level may be used towards the degree requirements.

2. An additional 0.50 credits from at least 3 of the following subject areas: biological science, biochemistry/chemistry, mathematical science, physics.

3. 6.50 additional credits selected from the list of approved science electives for the B.Sc. degree program of which 2.50 credits must be at the 3000 or 4000 level. Note: One of: BIOL*1020, CHEM*1060, PHYS*1020 may be counted towards the degree requirements, counting as 0.50 credits in science.

X. Degree Programs, Bachelor of Science (B.Sc.)
4. 2.00 credits - arts and/or social science electives approved for the B.Sc. degree program.
5. 1.00 credits in electives.

**Recommended Schedule for Students in Biological Science Areas**

**Semester 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>Discovering Biodiversity</td>
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<tr>
<td>CHEM*1040</td>
<td>General Chemistry I</td>
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</tr>
<tr>
<td>MATH*1080</td>
<td>Elements of Calculus I</td>
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</tr>
<tr>
<td>PHYS*1070</td>
<td>Introductory Physics for Life Sciences</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 Arts or Social Science electives

Students who are lacking one 4U grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revisedss](http://www.bsc.uoguelph.ca/revisedss)

**Semester 2**

<table>
<thead>
<tr>
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<td>Introduction to Molecular and Cellular Biology</td>
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</tr>
<tr>
<td>CHEM*1050</td>
<td>General Chemistry II</td>
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</tr>
<tr>
<td>PHYS*1080</td>
<td>Physics for Life Sciences</td>
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</tr>
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</table>

One of:

<table>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1000</td>
<td>Introduction to Computer Applications</td>
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<tr>
<td>CIS*1200</td>
<td>Introduction to Computing</td>
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<td>CIS*1500</td>
<td>Introduction to Programming</td>
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<td>Statistics I</td>
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<tr>
<td>MATH*2080</td>
<td>Elements of Calculus II</td>
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0.50 Arts or Social Science electives

* BIOL*1080 is a prerequisite for some courses in the biological sciences. Students are strongly recommended to also complete this course by the end of the third semester.

**Semester 3 to 6**

A minimum of 2.50 credits in each semester, including at least 2.00 acceptable science credits per semester. For details consult ‘Total Course Requirements’.

**Recommended Schedule for Students in Physical Science Areas**

**Semester 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CHEM*1040</td>
<td>General Chemistry I</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>Calculus I</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1000</td>
<td>An Introduction to Mechanics</td>
<td>0.50</td>
</tr>
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</table>

One of:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1000</td>
<td>Introduction to Computer Applications</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*1200</td>
<td>Introduction to Computing</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*1500</td>
<td>Introduction to Programming</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>Statistics I</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 Arts or Social Science electives

Students who are lacking one 4U grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revisedss](http://www.bsc.uoguelph.ca/revisedss)

**Semester 2**

<table>
<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>CHEM*1050</td>
<td>General Chemistry II</td>
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</tr>
<tr>
<td>MATH*1210</td>
<td>Calculus II</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1010</td>
<td>An Introduction to Mechanics</td>
<td>0.50</td>
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</tbody>
</table>

One of:

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<tr>
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</thead>
<tbody>
<tr>
<td>BIOL*1070</td>
<td>Discovering Biodiversity</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1080</td>
<td>Biological Concepts of Health</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1090</td>
<td>Introduction to Molecular and Cellular Biology</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 Arts or Social Science electives

**Semester 3 to 6**

A minimum of 2.50 credits in each semester, including 2.00 acceptable science courses per semester. For details consult ‘Total Course Requirements’.

**Honours Programs (BSCH)**

**Honours Program Majors**

The following honours majors are available:

**Biological Sciences:**

- 20.00 credits - Animal Biology (ABIO)
- 20.25 credits - Biochemistry (BIOC)
- 20.00 credits - Biotechnology (BIOT)
- 5.25 credits - Microbiology (MICR)
- 5.00 credits - Molecular Biology and Genetics (MBG)
- 5.00 credits - Neuroscience (NEUR)
- 5.00 credits - Nutritional and Nutraceutical Sciences (NANS)
- 5.00 credits - Zoology (ZOO)

**Physical Sciences:**

- 20.00 credits - Biological and Pharmaceutical Chemistry (BPCH)
- 21.25 credits - Biological and Medical Physics (BMPP)
- 21.75 credits - Chemistry (CHEM)
- 20.00 credits - Environmental Biology (ENBV)
- 20.00 credits - Environmental Geoscience and Geomatics (EGG)
- 20.00 credits - Nanoscience (NANO)
- 20.00 credits - Physical Science (PSCT)
- 21.25 credits - Physics (PHYS)
- 21.25 credits - Theoretical Physics (THPY)

**Environmental Sciences:**

- 20.00 credits - Toxicology (TOX)
- 5.00 credits - Biology (BIOL)
- 5.00 credits - Biochemistry (BIOC)
- 5.00 credits - Biotechnology (BIOT)
- 5.25 credits - Microbiology (MICR)
- 5.00 credits - Molecular Biology and Genetics (MBG)
- 5.00 credits - Neuroscience (NEUR)
- 5.00 credits - Nutritional and Nutraceutical Sciences (NANS)
- 5.00 credits - Plant Science (PLSC)
- 5.00 credits - Zoology (ZOO)

**Honours Program Minors**

Minors are available in the following science areas with the particular credit requirements being given (additional minors are available from the College of Arts and the College of Social and Applied Human Sciences). A minor may include additional prerequisites - consult with the appropriate faculty advisor.

**Biological Sciences:**

- 5.00 credits - Animal Biology (ABIO)
- 5.00 credits - Biochemistry (BIOC)
- 5.00 credits - Biotechnology (BIOT)
- 5.25 credits - Microbiology (MICR)
- 5.00 credits - Molecular Biology and Genetics (MBG)
- 5.00 credits - Neuroscience (NEUR)
- 5.00 credits - Nutritional and Nutraceutical Sciences (NANS)
- 5.00 credits - Plant Science (PLSC)
- 5.00 credits - Zoology (ZOO)

**Physical Sciences:**

- 5.00 credits - Chemistry (CHEM)
- 5.00 credits - Physics (PHYS)

**Environmental Sciences:**

- 5.00 credits - Ecology (ECOL)
- 5.00 credits - Geographic Information Systems (GIS) and Environmental Analysis

**Mathematical Sciences:**

- 5.25 credits - Computing and Information Science (CIS)
- 5.00 credits - Mathematical Science (MSCI)
- 5.00 credits - Mathematics (MATH)
- 5.00 credits - Statistics (STAT)

**Additional Disciplines:**

- 5.00 credits - Business Administration (BADM)
- 5.00 credits - Psychology: Brain & Cognition (PBC)

**Continuation of Study**

Students are advised to consult the regulations for continuation of study within the program which are outlined in detail in Section VII--Undergraduate Degree Regulations & Procedures.

**Conditions for Graduation**

Schedules 1 and 2

In order to qualify for graduation from the honours program, the student must fulfill all program requirements and have achieved 60%, or higher, cumulative average in all course attempts.
Co-operative Education Program

Admission to the Co-operative Education program may be granted on entry to the University or by application normally before the conclusion of Semester 2. Application forms can be obtained from the appropriate faculty co-op advisor. In-course students will need to complete successfully an interview in the appropriate department. Students must be either a Canadian Citizen or Permanent Resident. A cumulative average of 70% is required in courses taken in Semesters 1 and 2 to permit continuation in the program.

Conditions for Graduation from the B.Sc. Co-operative Education Program

Conditions for graduation are the same as the corresponding regular B.Sc. program. In addition, all work reports and work performance evaluations must have a grade of satisfactory or better.

Animal Biology (ABIO)

Department of Animal and Poultry Science, Ontario Agricultural College

Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor.

Semester 1

BIOL*1050 [0.50] Biology of Plants & Animals in Managed Ecosystems
CHEM*1040 [0.50] General Chemistry I
MATH*1080 [0.50] Elements of Calculus I
PHYS*1070 [0.50] Introductory Physics for Life Sciences

0.50 Arts or Social Science electives

Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

Semester 2

ANSC*1210 [1.00] Principles of Animal Care and Welfare
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1050 [0.50] General Chemistry II
PHYS*1080 [0.50] Physics for Life Sciences

Semester 3

AGR*2350 [0.50] Animal Production Systems, Health and Industry
BIOL*2580 [0.50] Introduction to Biochemistry
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
MBG*2400 [0.50] Fundamentals of Plant and Animal Genetics

0.50 electives or restricted electives

Students are encouraged to consider CIS*1000 as an elective if they wish to enhance their computer literacy.

Semester 4

ANSC*2340 [0.50] Structure of Farm Animals
MCR*2050 [0.50] Molecular Biology of the Cell
NUTR*3210 [0.50] Fundamentals of Nutrition
STAT*2040 [0.50] Statistics I

0.50 electives or restricted electives

Semester 5

ANSC*3080 [0.50] Agricultural Animal Physiology
ANSC*3120 [0.50] Introduction to Animal Nutrition

1.50 electives or restricted electives

Semester 6

ANSC*4650 [0.50] Comparative Immunology
MBG*3060 [0.50] Quantitative Genetics

1.50 electives or restricted electives

Semester 7

2.50 electives or restricted electives

Semester 8

2.50 electives or restricted electives

Restricted Electives

Students must complete 2.00 credits from Arts or Social Science courses. ANSC*1210 is an Arts and Social Science 1.00 credit. 1.00 additional credits from Arts or Social Science are required.

0.50 credits is required from each of the following: Animal Nutrition, Animal Breeding & Genetics, and Animal Physiology & Behaviour. Students are encouraged to consult with the Faculty Advisor for help in tailoring their selection to meet personal and career interests.

Note: Students are required to complete 16.00 credits in science of which a minimum of 6.00 credits must be at the 3000, 4000 level and at least 2.00 credits of these must be 4000 level.

Animal Breeding & Genetics [0.50] Required

ANSC*4020 [0.50] Genetics of Companion Animals
ANSC*4050 [0.50] Biotechnology in Animal Science
MBG*4030 [0.50] Animal Breeding Methods and Applications

Animal Nutrition [0.50] Required

ANSC*3170 [0.50] Nutrition of Fish and Crustacea
ANSC*3180 [0.50] Wildlife Nutrition
ANSC*4260 [0.50] Beef Cattle Nutrition
ANSC*4270 [0.50] Dairy Cattle Nutrition
ANSC*4280 [0.50] Poultry Nutrition
ANSC*4290 [0.50] Swine Nutrition
ANSC*4560 [0.50] Pet Nutrition

EQN*4020 [0.50] Feeding the Performance Horse

Animal Physiology & Behaviour [0.50] Required

ANSC*4090 [0.50] Applied Animal Behaviour
ANSC*4100 [0.50] Applied Environmental Physiology and Animal Housing
ANSC*4350 [0.50] Experiments in Animal Biology
ANSC*4470 [0.50] Animal Metabolism
ANSC*4490 [0.50] Applied Endocrinology

An additional 3.00 credits must be obtained by selecting courses from the above lists and from the following:

ANSC*3050 [0.50] Aquaculture: Advanced Issues
ANSC*4610 [0.50] Critical Analysis in Animal Science
ANSC*4700 [0.50] Research in Animal Biology I
ANSC*4710 [0.50] Research in Animal Biology II
BIOL*3560 [0.50] Structure and Function in Biochemistry
EQN*3050 [0.50] Equine Exercise Physiology
MICR*3230 [0.50] Immunology
PATH*3610 [0.50] Principles of Disease
POMP*3240 [0.50] Epidemiology
POMP*4230 [0.50] Animal Health

Applied Mathematics and Statistics (Co-op) (APMS:C)

Department of Mathematics and Statistics, College of Physical and Engineering Science

Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum of 20.00 credits is required to complete this program which includes 5.00 credits in Mathematics, 2.50 credits in Statistics, an additional 2.00 credits in Mathematics or Statistics at the 3000 level, and an additional 2.00 credits in Mathematics or Statistics at the 4000 level, 1.00 credits in Computing and Information Science, and 1.00 credits in Arts or Social Sciences courses.

Semester 1 - Fall

CHEM*1040 [0.50] General Chemistry I
CIS*1500 [0.50] Introduction to Programming
IPS*1500 [1.00] Integrated Mathematics and Physics I

One of

BIOL*1070 [0.50] Discovering Biodiversity
BIOL*1080 [0.50] Biological Concepts of Health
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

Semester 2 - Winter

CHEM*1050 [0.50] General Chemistry II
CIS*2500 [0.50] Intermediate Programming
COOP*1100 [0.00] Introduction to Co-operative Education
IPS*1510 [1.00] Integrated Mathematics and Physics II

One of

BIOL*1070 [0.50] Discovering Biodiversity
BIOL*1080 [0.50] Biological Concepts of Health
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

Summer Semester

No study semester or work term.

Semester 3 - Fall

MATH*2000 [0.50] Set Theory
MATH*2160 [0.50] Linear Algebra I
MATH*2200 [0.50] Advanced Calculus I
STAT*2040 [0.50] Statistics I

0.50 Arts or Social Science electives

Note: Students are required to complete 16.00 credits in science of which a minimum of 6.00 credits must be at the 3000, 4000 level and at least 2.00 credits of these must be 4000 level.

Animal Breeding & Genetics [0.50] Required

ANSC*4020 [0.50] Genetics of Companion Animals
ANSC*4050 [0.50] Biotechnology in Animal Science
MBG*4030 [0.50] Animal Breeding Methods and Applications

Animal Nutrition [0.50] Required

ANSC*3170 [0.50] Nutrition of Fish and Crustacea
ANSC*3180 [0.50] Wildlife Nutrition
ANSC*4260 [0.50] Beef Cattle Nutrition
ANSC*4270 [0.50] Dairy Cattle Nutrition
ANSC*4280 [0.50] Poultry Nutrition
ANSC*4290 [0.50] Swine Nutrition
ANSC*4560 [0.50] Pet Nutrition

EQN*4020 [0.50] Feeding the Performance Horse

Animal Physiology & Behaviour [0.50] Required

ANSC*4090 [0.50] Applied Animal Behaviour
ANSC*4100 [0.50] Applied Environmental Physiology and Animal Housing
ANSC*4350 [0.50] Experiments in Animal Biology
ANSC*4470 [0.50] Animal Metabolism
ANSC*4490 [0.50] Applied Endocrinology

An additional 3.00 credits must be obtained by selecting courses from the above lists and from the following:

ANSC*3050 [0.50] Aquaculture: Advanced Issues
ANSC*4610 [0.50] Critical Analysis in Animal Science
ANSC*4700 [0.50] Research in Animal Biology I
ANSC*4710 [0.50] Research in Animal Biology II
BIOL*3560 [0.50] Structure and Function in Biochemistry
EQN*3050 [0.50] Equine Exercise Physiology
MICR*3230 [0.50] Immunology
PATH*3610 [0.50] Principles of Disease
POMP*3240 [0.50] Epidemiology
POMP*4230 [0.50] Animal Health
Winter Semester
COOP*1000 [0.00] Co-op Work Term I
Note: Suggested course sequences are available in the departmental brochure. Please consult with the departmental advisor.

Semester 4 - Summer
MATH*2170 [0.50] Differential Equations I
STAT*2050 [0.50] Statistics II
0.50 Arts or Social Science electives
1.00 electives

Fall Semester
COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter
MATH*2130 [0.50] Numerical Methods
MATH*2210 [0.50] Advanced Calculus II
0.50 credits in Mathematics or Statistics at the 3000 level or above
1.00 electives

Spring Semester
COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall
STAT*3100 [0.50] Introductory Mathematical Statistics I
STAT*3240 [0.50] Applied Regression Analysis
At least 1.00 credits from:
MATH*3100 [0.50] Differential Equations II
MATH*3200 [0.50] Real Analysis
MATH*3240 [0.50] Operations Research
0.50 electives

Semester 7 - Winter
STAT*3110 [0.50] Introductory Mathematical Statistics II
1.50 credits in Mathematics or Statistics at the 3000 level or above
0.50 electives

Summer Semester
COOP*4000 [0.00] Co-op Work Term IV

Semester 8 - Fall
2.00 credits in Mathematics or Statistics at the 4000 level
0.50 electives

Electives must include:
1.00 credits in Arts and Social Science courses
2.00 credits in Mathematics or Statistics at the 3000 level
2.00 credits in Mathematics or Statistics at the 4000 level

Biochemistry (BIOC)

Department of Molecular and Cellular Biology, College of Biological Science

A B.Sc. in Biochemistry offers a multidisciplinary curriculum that gives students broad exposure to the life sciences with specific attention paid to the physical and chemical nature of biomolecular systems. The lab-intensive experience in this program prepares students to pursue postgraduate research opportunities in many different life science related fields. Graduates are also positioned to be successful in obtaining entrance to a number of professional programs, as well as employment in industry and government.

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. The major will require the completion of at least 20.25 credits as indicated below:

Major (Honours Program)

Semester 1
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1040 [0.50] General Chemistry I
MATH*1200 [0.50] Calculus I
PHYS*1000 [0.50] An Introduction to Mechanics
0.50 Arts or Social Science electives
Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revised

Semester 2
BIOL*1070 [0.50] Discovering Biodiversity
BIOL*1080 [0.50] Biological Concepts of Health
CHEM*1050 [0.50] General Chemistry II
MATH*1210 [0.50] Calculus II
PHYS*1010 [0.50] Introductory Electricity and Magnetism

Semester 3
BIOL*2580 [0.50] Introduction to Biochemistry
CHEM*2060 [0.50] Structure and Bonding
CHEM*2880 [0.50] Physical Chemistry

MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
0.50 Arts or Social Science electives

Semester 4
BIOC*3560 [0.50] Structure and Function in Biochemistry
CHEM*2480 [0.50] Analytical Chemistry I
CHEM*2700 [0.50] Organic Chemistry I
MCB*2050 [0.50] Molecular Biology of the Cell
MICR*2420 [0.50] Introduction to Microbiology

Semester 5
BIOC*3570 [0.75] Analytical Biochemistry
CHEM*3750 [0.50] Organic Chemistry II
MICR*2430 [0.50] Microbiology Methods I
STAT*2040 [0.50] Statistics I
Minimum 0.25 electives or restricted electives*

*Note: There are a limited number of 0.25 credit courses available. Students should consult their faculty advisor or program counsellor for additional information.

Semester 6
MBG*3350 [0.75] Laboratory Methods in Molecular Biology I
PHYS*2030 [0.50] Biophysics of Excitable Cells
1.50 electives or restricted electives

Semester 7
2.50 electives or restricted electives

Semester 8
BIOC*4540 [0.75] Enzymology
1.75 electives or restricted electives

Restricted Electives

Students must take as part of their program: 3.5 credits from the following list, with at least 1.00 of these credits from BIOC*4520, BIOC*4580, MCB*4050

BIOC*4520 [0.50] Metabolic Processes
BIOC*4580 [0.50] Membrane Biochemistry
BIOM*3200 [1.00] Mammalian Physiology
MCB*4010 [0.50] Advanced Cell Biology
MCB*4050 [0.50] Protein and Nucleic Acid Structure
MCB*4500 [1.00] Research Project in Molecular & Cellular Biology I
MCB*4510 [1.00] Research Project in Molecular & Cellular Biology II
MICR*3230 [0.50] Immunology
MICR*3330 [0.50] World of Viruses
MICR*4330 [0.50] Molecular Virology
MICR*4530 [0.50] Immunology II
PBIO*3110 [0.50] Crop Physiology
PBIO*4750 [0.50] Genetic Engineering of Plants
TOX*4590 [0.50] Biochemical Toxicology

One of:
MBG*3080 [0.50] Bacterial Genetics
MBG*4080 [0.50] Molecular Genetics

Minor (Honours Program)

A minor in Biochemistry consists of at least 5.00 course credits. The following courses are required:

BIOC*3560 [0.50] Structure and Function in Biochemistry
BIOC*3570 [0.75] Analytical Biochemistry
BIOC*4540 [0.75] Enzymology
CHEM*2480 [0.50] Analytical Chemistry I
CHEM*2700 [0.50] Organic Chemistry I

One of:
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
MICR*2420 [0.50] Introduction to Microbiology

In addition, at least 1.50 credits must be chosen from the following courses, with at least 1.00 credits from the first three courses listed:

BIOC*4520 [0.50] Metabolic Processes
BIOC*4580 [0.50] Membrane Biochemistry
MBG*3350 [0.75] Laboratory Methods in Molecular Biology I
MCB*4050 [0.50] Protein and Nucleic Acid Structure
MICR*3230 [0.50] Immunology
MICR*3330 [0.50] World of Viruses
PBIO*3110 [0.50] Crop Physiology
TOX*4590 [0.50] Biochemical Toxicology

Biochemistry (Co-op) (BIOC:C)

Department of Molecular and Cellular Biology, College of Biological Science

A B.Sc. in Biochemistry offers a multidisciplinary curriculum that gives students broad exposure to the life sciences with specific attention paid to the physical and chemical nature of biomolecular systems. The lab-intensive experience in this program prepares students to pursue postgraduate research opportunities in many different life science related fields. Graduates are also positioned to be successful in obtaining entrance to a number of professional programs, as well as employment in industry and government.
Two Streams are available. Stream A is different from Stream B in that Stream A has a double work term following academic semester 5. The course content of semesters 1-4 is the same as that listed above for the regular Honours Program Major. Students in the Co-op program must also take COOP*1100 in the second academic semester. The total program requirements, including the selection of electives are also the same. Students will be expected to undertake their work terms after semester 3 and completion of course CHEM*2480. Since certain courses must be taken in a different semester from usual, consult your Faculty Co-op Advisor for assistance with course selection.

To graduate from the Co-op program a minimum of 4 successfully completed work terms is normally required. This major requires the completion of 20.25 credits as indicated below.

**Stream A**

**Semester 1 - Fall**
- BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
- CHEM*1040 [0.50] General Chemistry I
- MATH*1200 [0.50] Calculus I
- PHYS*1000 [0.50] An Introduction to Mechanics

0.50 Arts or Social Science electives

Students who are lacking one 4U / grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

**Semester 2 - Winter**
- BIOL*1070 [0.50] Discovering Biodiversity
- BIOL*1080 [0.50] Biological Concepts of Health
- CHEM*1050 [0.50] General Chemistry II
- COOP*1100 [0.00] Introduction to Co-operative Education
- MATH*1210 [0.50] Calculus II
- PHYS*1010 [0.50] Introductory Electricity and Magnetism

**Summer Semester**

No academic semester or work term

**Semester 3 - Fall**
- BIOC*2580 [0.50] Introduction to Biochemistry
- CHEM*2060 [0.50] Structure and Bonding
- CHEM*2480 [0.50] Analytical Chemistry I
- CHEM*2880 [0.50] Physical Chemistry
- MBG*2040 [0.50] Foundations in Molecular Biology and Genetics

**Winter Semester**
- COOP*1000 [0.00] Co-op Work Term I

**Semester 4 - Summer**
- BIOC*3570 [0.75] Analytical Biochemistry
- CHEM*2700 [0.50] Organic Chemistry I
- MIRC*2420 [0.50] Introduction to Microbiology
- STAT*2040 [0.50] Statistics I

0.50 Arts or Social Science electives

**Semester 5 - Fall**
- BIOC*3560 [0.50] Structure and Function in Biochemistry
- CHEM*3750 [0.50] Organic Chemistry II
- MCB*2050 [0.50] Molecular Biology of the Cell
- MIRC*2430 [0.50] Microbiology Methods I

0.50 electives or restricted electives

**Winter Semester**
- COOP*2000 [0.00] Co-op Work Term II

**Summer Semester**
- COOP*3000 [0.00] Co-op Work Term III

**Semester 6 - Fall**
- MBG*3350 [0.75] Laboratory Methods in Molecular Biology I

1.75 electives or restricted electives

**Semester 7 - Winter**
- BIOC*4540 [0.75] Enzymology
- PHYS*2030 [0.50] Biophysics of Excitable Cells

1.25 electives or restricted electives

**Summer Semester**
- COOP*4000 [0.00] Co-op Work Term IV

**Semester 8 - Fall**
- 2.50 electives or restricted electives

**Restricted Electives**

Students must take as part of their program: 3.5 credits from the following list, with at least 1.00 of these credits from BIOC*4520, BIOC*4580, MCB*4050
- BIOC*4520 [0.50] Metabolic Processes
- BIOC*4580 [0.50] Membrane Biochemistry
- BIOM*3200 [1.00] Mammalian Physiology
- MCB*4010 [0.50] Advanced Cell Biology
- MCB*4050 [0.50] Protein and Nucleic Acid Structure
- MCB*4500 [1.00] Research Project in Molecular & Cellular Biology I
- MCB*4510 [1.00] Research Project in Molecular & Cellular Biology 2
- MICR*3230 [0.50] Immunology
- MICR*3330 [0.50] World of Viruses
- MICR*4330 [0.50] Molecular Virology
- MICR*4530 [0.50] Immunology II
- PBIO*3110 [0.50] Crop Physiology
- PBIO*4750 [0.50] Genetic Engineering of Plants
- TOX*4590 [0.50] Biochemical Toxicology

One of:
- MBG*3080 [0.50] Bacterial Genetics
- MBG*4080 [0.50] Molecular Genetics

**Stream B**

**Semester 1 - Fall**
- BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
- CHEM*1040 [0.50] General Chemistry I
- MATH*1200 [0.50] Calculus I
- PHYS*1000 [0.50] An Introduction to Mechanics

0.50 Arts or Social Science electives

Students who are lacking one 4U / grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

**Semester 2 - Winter**
- BIOL*1070 [0.50] Discovering Biodiversity
- BIOL*1080 [0.50] Biological Concepts of Health
- CHEM*1050 [0.50] General Chemistry II
- MCB*1050 [0.50] Calculus II
- MCB*1100 [0.00] Introduction to Co-operative Education
- MATH*1210 [0.50] Calculus II
- PHYS*1010 [0.50] Introductory Electricity and Magnetism

**Summer Semester**

No academic semester or work term

**Semester 3 - Fall**
- BIOC*2580 [0.50] Introduction to Biochemistry
- CHEM*2060 [0.50] Structure and Bonding
- CHEM*2480 [0.50] Analytical Chemistry I
- CHEM*2880 [0.50] Physical Chemistry
- MBG*2040 [0.50] Foundations in Molecular Biology and Genetics

**Winter Semester**
- COOP*1000 [0.00] Co-op Work Term I

**Semester 4 - Summer**
- BIOC*3570 [0.75] Analytical Biochemistry
- CHEM*2700 [0.50] Organic Chemistry I
- MIRC*2420 [0.50] Introduction to Microbiology
- STAT*2040 [0.50] Statistics I

0.50 Arts or Social Science electives

**Semester 5 - Fall**
- BIOC*3560 [0.50] Structure and Function in Biochemistry
- CHEM*3750 [0.50] Organic Chemistry II
- MCB*2050 [0.50] Molecular Biology of the Cell
- MIRC*2430 [0.50] Microbiology Methods I

0.50 electives or restricted electives

**Winter Semester**
- COOP*2000 [0.00] Co-op Work Term II

**Summer Semester**
- COOP*3000 [0.00] Co-op Work Term III

**Semester 6 - Fall**
- BIOC*3560 [0.50] Structure and Function in Biochemistry
- MCB*2050 [0.50] Molecular Biology of the Cell
- MIRC*2430 [0.50] Microbiology Methods I
- PHYS*2030 [0.50] Biophysics of Excitable Cells

0.50 electives or restricted electives

**Winter Semester**
- COOP*4000 [0.00] Co-op Work Term IV

**Summer Semester**
- COOP*4000 [0.00] Co-op Work Term IV

**Semester 8 - Fall**
- 2.50 electives or restricted electives
Restricted Electives

Students must take as part of their program: 3.5 credits from the following list, with at least 1.00 of these credits from BIOC*4520, BIOC*4580, MCB*4050

**BIOC***4520 [0.50] Metabolic Processes
**BIOC***4580 [0.50] Membrane Biochemistry
**BIOC***3200 [1.00] Mammalian Physiology
**MCB***4010 [0.50] Advanced Cell Biology
**MCB***4050 [0.50] Protein and Nucleic Acid Structure
**MCB***4500 [1.00] Research Project in Molecular & Cellular Biology I
**MCB***4510 [1.00] Research Project in Molecular & Cellular Biology 2
**MIRC***3230 [0.50] Immunology
**MIRC***3330 [0.50] World of Viruses
**MIRC***4330 [0.50] Molecular Virology
**MIRC***4530 [0.50] Immunology II
**PBO***3110 [0.50] Crop Physiology
**PBO***4750 [0.50] Genetic Engineering of Plants
**TOX***4590 [0.50] Biomedical Toxicology

One of:

MBG*3080 [0.50] Bacterial Genetics
MBG*4080 [0.50] Molecular Genetics

### Biodiversity (BIOD)

**Department of Integrative Biology, College of Biological Science**

The Major in Biodiversity offers a broad education in the diversity and evolution of life while providing a more specialized understanding of biology at the level of the organism. It is the most flexible of the majors offered by the Department of Integrative Biology and as such, it allows students the opportunity to design a customized program around their interests. The major qualifies students for postgraduate work in biodiversity, botany, zoology, and other life sciences and provides a sound science background for students wishing to pursue professional life science degrees or careers in teaching, government service or the private sector.

**Major (Honours Program)**

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum total of 20.00 credits are required to complete the major. At least 6.00 science credits must be at the 3000 or 4000 level, 2.00 of which must be at the 4000 level.

#### Semester 1

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOC*1070</td>
<td>Discovering Biodiversity</td>
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</tr>
<tr>
<td>CHEM*1040</td>
<td>General Chemistry I</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>Elements of Calculus I</td>
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<tr>
<td>PHYS*1070</td>
<td>Introductory Physics for Life Sciences</td>
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#### Semester 2

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<tr>
<td>BIOC*1080</td>
<td>Biological Concepts of Health</td>
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<td>BIOC*1090</td>
<td>Introduction to Molecular and Cellular Biology</td>
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<td>CHEM*1050</td>
<td>General Chemistry II</td>
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<td>PHYS*1080</td>
<td>Physics for Life Sciences</td>
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<td>MBG*2040</td>
<td>Foundations in Molecular Biology and Genetics</td>
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<td>ZOO*2090</td>
<td>Vertebrate Structure and Function</td>
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#### Semester 4

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<td>BIOC*2400</td>
<td>Evolution</td>
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<td>STAT*2230</td>
<td>Biostatistics for Integrative Biology</td>
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<tr>
<td>ZOO*2700</td>
<td>Invertebrate Morphology &amp; Evolution</td>
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#### Semester 6

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<td>ENV*3090</td>
<td>Insect Diversity and Biology</td>
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<tr>
<td>IBIO*3100</td>
<td>Interpreting Biodiversity I</td>
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#### Semester 7

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<td>Interpreting Biodiversity II</td>
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**Credit Summary (20.00 Total Credits)**

- **4.00 - First year science credits**
- **6.50 - Required science courses semesters 3 - 8**
  - **1.50 - Restricted elective (# 2 and 3 in restricted elective list)**
  - **4.00 - Approved Science electives**
  - **1.00 - Arts and/or Social Science electives (# 1 in restricted elective list)**
  - **3.00 - Free electives - any approved elective for B.Sc. students**

*Of the total credits required, students are required to complete **16.00 credits** in science of which a minimum of **2.00 credits** must be at the 4000 level and an additional **4.00 credits** must be at the 3000 or 4000 level.

**Biological and Medical Physics (BMPH)**

**Department of Physics, College of Physical and Engineering Science**

**Major (Honours Program)**

The program emphasizes the application of physics to biology and medicine. It provides an excellent background for careers in the expanding interdisciplinary research laboratories of government and industry, as well as a starting point for a career in medical physics. Completion of the program at an appropriate level will qualify a student to pursue post-graduate studies in biophysics, medical physics and related areas of physics.

Since some of the required courses are not offered every semester, students entering the Major in Biological and Medical Physics should plan their program in consultation with the Department of Physics Faculty Advisor.

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. This major requires the completion of **21.00 credits** as follows:

#### Semester 1

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOC*1090</td>
<td>Introduction to Molecular and Cellular Biology</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>General Chemistry I</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CIS*1500</td>
<td>Introduction to Programming</td>
<td>[0.50]</td>
</tr>
<tr>
<td>1.00 credits from: IPS<em>1500, or (MATH</em>1080, PHYS<em>1070) or (MATH</em>1200, PHYS*1000)</td>
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</table>

* IPS*1500 is recommended

Students who are lacking one 4U grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science
courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

Semester 2
BIOC*1080 [0.50] Biological Concepts of Health
CHEM*1050 [0.50] General Chemistry II
1.00 credits from: IPS*1510, or (MATH*2080, PHYS*1080) or (MATH*1210, PHYS*1010)
* IPS*1510 is recommended
0.50 Arts or Social Science electives

Semester 3
MATH*2160 [0.50] Linear Algebra I
MATH*2200 [0.50] Advanced Calculus I
PHYS*2440 [0.75] Mechanics I
PHYS*2460 [0.75] Electricity and Magnetism I
0.50 electives ***

Semester 4
MATH*2170 [0.50] Differential Equations I
PHYS*2030 [0.50] Biophysics of Excitable Cells
PHYS*2260 [0.50] Quantum Physics
PHYS*2470 [0.75] Electricity and Magnetism II
0.50 electives ***

Semester 5
BIOC*2580 [0.50] Introduction to Biochemistry
MATH*3100 [0.50] Differential Equations II
PHYS*3100 [0.75] Electronics
PHYS*3230 [0.50] Quantum Mechanics I
PHYS*3240 [0.50] Statistical Physics I
0.50 electives ***

Semester 6
PHYS*3150 [0.50] Intermediate Laboratory
PHYS*4040 [0.50] Quantum Mechanics II
PHYS*4540 [0.50] Molecular Biophysics
1.00 electives ***

Semester 7
PHYS*3170 [0.50] Radioactivity and Radiation Interactions
PHYS*4500 [0.50] Advanced Physics Laboratory
One of:
PHYS*4001 [0.50] Research in Physics
0.50 electives
1.00 electives ***
Note: Either PHYS*4001/2 in semesters 7 and 8 or PHYS*4300 in semester 8 must be taken.

Semester 8
PHYS*4070 [0.50] Clinical Applications of Physics in Medicine
One of:
PHYS*4002 [0.50] Research in Physics
PHYS*4300 [0.50] Inquiry in Physics
1.50 electives ***
Note: PHYS*4001/2 will be projects in biological or medical physics, some of which may be in areas outside the Department of Physics.

*** A minimum of 1.00 credits in Arts/Social Science is required. In addition, students are required to complete 2.00 credits from either List A or List B as follows:

List A: Biological Physics stream
BIOC*3560 [0.50] Structure and Function in Biochemistry
BIOC*4580 [0.50] Membrane Biochemistry
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
MCB*2050 [0.50] Molecular Biology of the Cell
MCB*4050 [0.50] Protein and Nucleic Acid Structure
PHYS*4240 [0.50] Statistical Physics II

List B: Medical Physics stream
BIOM*2000 [0.50] Concepts in Human Physiology
ENGG*4040 [0.50] Medical Imaging Modalities
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
PATH*3610 [0.50] Principles of Disease
PHYS*4130 [0.50] Subatomic Physics
PHYS*4150 [0.50] Solid State Physics

Biological and Medical Physics (Co-op) (BMPH:C)

Department of Physics, College of Physical and Engineering Science

Major (Honours Program)
The program emphasizes the application of physics to biology and medicine. It provides an excellent background for careers in the expanding interdisciplinary research laboratories of government and industry, as well as a starting point for a career in medical physics. Completion of the program at an appropriate level will qualify a student to pursue post-graduate studies in biophysics, medical physics and related areas of physics.

Since some of the required courses are not offered every semester, students entering the Major in Biological and Medical Physics (Co-op) should plan their program in consultation with the Department of Physics Faculty Advisor.

To graduate from the Co-op program a minimum of 4 successfully completed work terms is normally required.

This major requires the completion of 21.00 credits as follows:

Semester 1 - Fall
BIOC*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1040 [0.50] General Chemistry I
CIS*1500 [0.50] Introduction to Programming
1.00 credits from: IPS*1500, or (MATH*1080, PHYS*1070) or (MATH*1210, PHYS*1010)
* IPS*1500 is recommended

Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

Semester 2 - Winter
BIOC*1080 [0.50] Biological Concepts of Health
CHEM*1050 [0.50] General Chemistry II
1.00 credits from: IPS*1510, or (MATH*2080, PHYS*1080) or (MATH*1210, PHYS*1010)
* IPS*1510 is recommended

0.50 Arts or Social Science electives

Semester 3 - Fall
BIOC*2580 [0.50] Introduction to Biochemistry
COOP*1100 [0.00] Introduction to Co-operative Education
MATH*2160 [0.50] Linear Algebra I
MATH*2200 [0.50] Advanced Calculus I
PHYS*2440 [0.75] Mechanics I
PHYS*2470 [0.75] Electricity and Magnetism II
0.50 electives ***

Semester 4 - Winter
MATH*2170 [0.50] Differential Equations I
PHYS*2030 [0.50] Biophysics of Excitable Cells
PHYS*2260 [0.50] Quantum Physics
PHYS*2470 [0.75] Electricity and Magnetism II
0.50 electives ***

Semester 5
PHYS*3150 [0.50] Intermediate Laboratory
PHYS*4040 [0.50] Quantum Mechanics II
PHYS*4540 [0.50] Molecular Biophysics
1.00 electives ***

Summer Semester
COOP*1000 [0.00] Co-op Work Term I ++

Semester 6 - Fall
PHYS*3170 [0.50] Radioactivity and Radiation Interactions
PHYS*4500 [0.50] Advanced Physics Laboratory
One of:
PHYS*4001 [0.50] Research in Physics
0.50 electives
1.00 electives ***
Note: PHYS*4001/2 will be projects in biological or medical physics, some of which may be in areas outside the Department of Physics.

1.00 credits from: IPS*1500, or (MATH*1080, PHYS*1070) or (MATH*1210, PHYS*1010)

Semester 7 - Winter
MATH*3100 [0.50] Differential Equations II
PHYS*3100 [0.75] Electronics
PHYS*3240 [0.50] Statistical Physics I
1.00 electives ***

Winter Semester
COOP*2000 [0.00] Co-op Work Term II ++

Summer Semester
COOP*3000 [0.00] Co-op Work Term III ++

Semester 8 - Winter
PHYS*3170 [0.50] Radioactivity and Radiation Interactions
PHYS*3230 [0.50] Quantum Mechanics I
1.50 electives ***

Semester 9 - Winter
PHYS*3510 [0.50] Intermediate Laboratory
PHYS*4040 [0.50] Quantum Mechanics II
PHYS*4540 [0.50] Molecular Biophysics
1.00 electives ***

Summer Semester
COOP*4000 [0.00] Co-op Work Term IV ++

Fall Semester
COOP*5000 [0.00] Co-op Work Term V ++

Semester 10 - Winter
PHYS*4070 [0.50] Clinical Applications of Physics in Medicine
PHYS*4500 [0.50] Advanced Physics Laboratory
One of:
PHYS*4300 [0.50] Inquiry in Physics
### List A: Biological Physics stream

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*3560</td>
<td>[0.50]</td>
<td>Structure and Function in Biochemistry</td>
</tr>
<tr>
<td>BIOC*4580</td>
<td>[0.50]</td>
<td>Membrane Biochemistry</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>[0.50]</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>MCB*2050</td>
<td>[0.50]</td>
<td>Molecular Biology of the Cell</td>
</tr>
<tr>
<td>MCB*4050</td>
<td>[0.50]</td>
<td>Protein and Nucleic Acid Structure</td>
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<tr>
<td>PHYS*4240</td>
<td>[0.50]</td>
<td>Statistical Physics II</td>
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### List B: Medical Physics stream

<table>
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<th>Credits</th>
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<tbody>
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<td>BIOM*2000</td>
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<td>Concepts in Human Physiology</td>
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<tr>
<td>ENGG*4040</td>
<td>[0.50]</td>
<td>Medical Imaging Modalities</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>[0.50]</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>PATH*3610</td>
<td>[0.50]</td>
<td>Principles of Disease</td>
</tr>
<tr>
<td>PHYS*4130</td>
<td>[0.50]</td>
<td>Subatomic Physics</td>
</tr>
<tr>
<td>PHYS*4150</td>
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<td>Solid State Physics</td>
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### Biological and Pharmaceutical Chemistry (BPCH)

#### Department of Chemistry, College of Physical and Engineering Science

**Major (Honours Program)**

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Chemistry Faculty Advisor. This major will require the completion of 20.00 credits as indicated below:

**Semester 1**

<table>
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<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>BIOL*1090</td>
<td>[0.50]</td>
<td>Introduction to Molecular and Cellular Biology</td>
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<tr>
<td>CHEM*1040</td>
<td>[0.50]</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>IPS*1500</td>
<td>[1.00]</td>
<td>Integrated Mathematics and Physics I</td>
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</table>

0.50 Arts or Social Science electives

Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject must be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revisedus](http://www.bsc.uoguelph.ca/revisedus)

**Semester 2**

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<td>General Chemistry II</td>
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<tr>
<td>IPS*1510</td>
<td>[1.00]</td>
<td>Integrated Mathematics and Physics II</td>
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One of:

- BIOL*1070 [0.50] Discovering Biodiversity
- BIOL*1080 [0.50] Biological Concepts of Health

0.50 Arts or Social Science electives

**Semester 3**

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<td>Introduction to Biochemistry</td>
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<td>CHEM*2060</td>
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<td>CHEM*2400</td>
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<td>CHEM*2880</td>
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0.25 electives or restricted electives *

**Semester 4**

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<td>Analytical Chemistry II: Instrumental Analysis</td>
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<td>MICR*2420</td>
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<td>Introduction to Microbiology</td>
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<td>STAT*2040</td>
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**Semester 5**

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<td>Analytical Biochemistry</td>
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<tr>
<td>CHEM*3750</td>
<td>[0.50]</td>
<td>Organic Chemistry II</td>
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One of:

- CHEM*3640 [0.50] Chemistry of the Elements I **

0.50 electives or restricted electives *

0.75 electives or restricted electives *

**CHEM*3640 is a prerequisite for CHEM*3650**

**Semester 6**

Select either Option A or Option B

**Option A (at Guelph)**

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<td>Structure and Function in Biochemistry</td>
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<tr>
<td>CHEM*3650</td>
<td>[0.50]</td>
<td>Chemistry of the Elements II</td>
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<tr>
<td>CHEM*3760</td>
<td>[0.50]</td>
<td>Organic Chemistry III</td>
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1.00 electives or restricted electives *

**Option B (at Seneca)**

2.50 credits from:

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<td>XSEN*3030</td>
<td>[0.50]</td>
<td>Pharmacology and Applied Toxicology</td>
</tr>
<tr>
<td>XSEN*3040</td>
<td>[0.50]</td>
<td>Occupational Health and Chemistry</td>
</tr>
<tr>
<td>XSEN*3060</td>
<td>[0.50]</td>
<td>Pharmaceutical Analysis - Advanced</td>
</tr>
<tr>
<td>XSEN*3070</td>
<td>[0.50]</td>
<td>Pharmaceutical Product Formulations</td>
</tr>
<tr>
<td>XSEN*3090</td>
<td>[0.50]</td>
<td>Biopharmaceuticals</td>
</tr>
<tr>
<td>XSEN*3200</td>
<td>[0.50]</td>
<td>Pharmaceutical Organic Chemistry</td>
</tr>
<tr>
<td>XSEN*3210</td>
<td>[0.50]</td>
<td>Introduction to Pharmaceutical Manufacturing</td>
</tr>
</tbody>
</table>

Note: All XSEN courses are taught at the Seneca@York campus of Seneca College in Toronto. (For more information, go to: [http://www.chemistry.uoguelph.ca/bpch/](http://www.chemistry.uoguelph.ca/bpch/))

#### Semester 7

One of:

- CHEM*4730 [0.50] Synthetic Organic Chemistry
- CHEM*4740 [0.50] Topics in Bio-Organic Chemistry

2.00 electives or restricted electives *

#### Semester 8

2.50 electives or restricted electives *

* **Restricted Electives**

**Students are advised to pay particular attention to pre-requisite requirements when choosing individual courses, and seek advice as needed.**

1. 1.00 credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBG*2040</td>
<td>[0.50]</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>MCB*2050</td>
<td>[0.50]</td>
<td>Molecular Biology of the Cell</td>
</tr>
<tr>
<td>TOX*2000</td>
<td>[0.50]</td>
<td>Principles of Toxicology</td>
</tr>
</tbody>
</table>

2. A minimum of 1.50 credits at the 4000 level and 2.50 credits at the 3000/4000 level from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*3560</td>
<td>[0.50]</td>
<td>Structure and Function in Biochemistry</td>
</tr>
<tr>
<td>BIOC*4520</td>
<td>[0.50]</td>
<td>Metabolic Processes</td>
</tr>
<tr>
<td>BIOC*4540</td>
<td>[0.75]</td>
<td>Enzymology **</td>
</tr>
<tr>
<td>BIOC*4580</td>
<td>[0.50]</td>
<td>Membrane Biochemistry</td>
</tr>
<tr>
<td>BIOM*3090</td>
<td>[0.50]</td>
<td>Principles of Pharmacology **</td>
</tr>
<tr>
<td>BIOM*3200</td>
<td>[1.00]</td>
<td>Mammalian Physiology</td>
</tr>
<tr>
<td>BIOM*4080</td>
<td>[0.50]</td>
<td>Pharmacology **</td>
</tr>
<tr>
<td>CHEM*3360</td>
<td>[0.50]</td>
<td>Environmental Chemistry and Toxicology</td>
</tr>
<tr>
<td>CHEM*3440</td>
<td>[0.50]</td>
<td>Analytical Chemistry III: Analytical Instrumentation</td>
</tr>
<tr>
<td>CHEM*3640</td>
<td>[0.50]</td>
<td>Chemistry of the Elements I</td>
</tr>
<tr>
<td>CHEM*3650</td>
<td>[0.50]</td>
<td>Chemistry of the Elements II **</td>
</tr>
<tr>
<td>CHEM*3760</td>
<td>[0.50]</td>
<td>Organic Chemistry III</td>
</tr>
<tr>
<td>CHEM*4010</td>
<td>[0.50]</td>
<td>Chemistry and Industry</td>
</tr>
<tr>
<td>CHEM*4400</td>
<td>[0.50]</td>
<td>Advanced Topics in Analytical Chemistry</td>
</tr>
<tr>
<td>CHEM*4630</td>
<td>[0.50]</td>
<td>Bioinorganic Chemistry **</td>
</tr>
<tr>
<td>CHEM*4720</td>
<td>[0.50]</td>
<td>Organic Reactivity **</td>
</tr>
<tr>
<td>CHEM*4730</td>
<td>[0.50]</td>
<td>Synthetic Organic Chemistry **</td>
</tr>
<tr>
<td>CHEM*4740</td>
<td>[0.50]</td>
<td>Topics in Bio-Organic Chemistry</td>
</tr>
<tr>
<td>CHEM*4900</td>
<td>[1.00]</td>
<td>Chemistry Research Project I **</td>
</tr>
<tr>
<td>CHEM*4910</td>
<td>[1.00]</td>
<td>Chemistry Research Project II **</td>
</tr>
<tr>
<td>MBG*3350</td>
<td>[0.75]</td>
<td>Laboratory Methods in Molecular Biology I **</td>
</tr>
<tr>
<td>MCB*4050</td>
<td>[0.50]</td>
<td>Protein and Nucleic Acid Structure **</td>
</tr>
<tr>
<td>MICR*3230</td>
<td>[0.50]</td>
<td>Immunology</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>[0.50]</td>
<td>Fundamentals of Nutrition</td>
</tr>
<tr>
<td>PATH*3610</td>
<td>[0.50]</td>
<td>Principles of Disease</td>
</tr>
<tr>
<td>TOX*4590</td>
<td>[0.50]</td>
<td>Biochemical Toxicology **</td>
</tr>
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<td>XSEN*3030</td>
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<td>Pharmacology and Applied Toxicology</td>
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<td>XSEN*3070</td>
<td>[0.50]</td>
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<tr>
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<td>Biopharmaceuticals</td>
</tr>
<tr>
<td>XSEN*3200</td>
<td>[0.50]</td>
<td>Pharmaceutical Organic Chemistry</td>
</tr>
<tr>
<td>XSEN*3210</td>
<td>[0.50]</td>
<td>Introduction to Pharmaceutical Manufacturing</td>
</tr>
</tbody>
</table>

### Biological and Pharmaceutical Chemistry (Co-op) (BPCH:C)

#### Department of Chemistry, College of Physical and Engineering Science

**Major (Honours Program)**

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Chemistry Faculty Advisor. This major will require the completion of 20.00 credits as indicated below:

**Semester 1 - Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
<td>[0.50]</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>[0.50]</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>IPS*1500</td>
<td>[1.00]</td>
<td>Integrated Mathematics and Physics I</td>
</tr>
</tbody>
</table>

0.50 Arts or Social Science electives

**Chemistry Research Project II**

Last Revision: Oct. 19, 2012

12/2013 Undergraduate Calendar
Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedds

### Semester 2 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>0.00</td>
<td>Introduction to Co-operative Education</td>
</tr>
<tr>
<td>IPS*1510</td>
<td>1.00</td>
<td>Integrated Mathematics and Physics II</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>BIOL*1070</td>
<td>0.50</td>
<td>Discovering Biodiversity</td>
</tr>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
<td>Biological Concepts of Health</td>
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0.50 Arts or Social Science electives

### Semester 3 - Fall

<table>
<thead>
<tr>
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<tr>
<td>BIOC*2580</td>
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<td>Introduction to Biochemistry</td>
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<td>CHEM*2060</td>
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<td>CHEM*2400</td>
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0.25 electives or restricted electives *

### Winter Semester

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### Semester 4 - Summer

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</thead>
<tbody>
<tr>
<td>CHEM*2070</td>
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<td>Structure and Spectroscopy</td>
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<tr>
<td>CHEM*2700</td>
<td>0.50</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>CHEM*3430</td>
<td>0.50</td>
<td>Analytical Chemistry II: Instrumental Analysis</td>
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<tr>
<td>STAT*2040</td>
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<td>Statistics I</td>
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0.50 electives or restricted electives *

### Semester 5 - Fall

<table>
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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>BIOC*3570</td>
<td>0.75</td>
<td>Analytical Biochemistry</td>
</tr>
<tr>
<td>CHEM*3750</td>
<td>0.50</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>One of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM*3640</td>
<td>0.50</td>
<td>Chemistry of the Elements I **</td>
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</tbody>
</table>

0.50 electives or restricted electives *

### Semester 6 - Winter

Select either Option A or Option B

#### Option A (at Guelph)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*3560</td>
<td>0.50</td>
<td>Structure and Function in Biochemistry</td>
</tr>
<tr>
<td>CHEM*3650</td>
<td>0.50</td>
<td>Chemistry of the Elements II **</td>
</tr>
<tr>
<td>CHEM*3760</td>
<td>0.50</td>
<td>Organic Chemistry III</td>
</tr>
<tr>
<td>CHEM*4010</td>
<td>0.50</td>
<td>Chemistry and Industry</td>
</tr>
<tr>
<td>CHEM*4400</td>
<td>0.50</td>
<td>Advanced Topics in Analytical Chemistry</td>
</tr>
<tr>
<td>CHEM*4630</td>
<td>0.50</td>
<td>Bioinorganic Chemistry **</td>
</tr>
<tr>
<td>CHEM*4720</td>
<td>0.50</td>
<td>Organic Reactivity **</td>
</tr>
<tr>
<td>CHEM*4730</td>
<td>0.50</td>
<td>Synthetic Organic Chemistry **</td>
</tr>
<tr>
<td>CHEM*4740</td>
<td>0.50</td>
<td>Topics in Bio-Organic Chemistry</td>
</tr>
<tr>
<td>CHEM*4900</td>
<td>1.00</td>
<td>Chemistry Research Project I **</td>
</tr>
<tr>
<td>CHEM*4910</td>
<td>1.00</td>
<td>Chemistry Research Project II **</td>
</tr>
<tr>
<td>MBG*3350</td>
<td>0.75</td>
<td>Laboratory Methods in Molecular Biology I **</td>
</tr>
<tr>
<td>MBG*4080</td>
<td>0.50</td>
<td>Molecular Genetics **</td>
</tr>
<tr>
<td>MCB*4050</td>
<td>0.50</td>
<td>Protein and Nucleic Acid Structure **</td>
</tr>
<tr>
<td>MICR*3230</td>
<td>0.50</td>
<td>Immunology</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>0.50</td>
<td>Fundamentals of Nutrition</td>
</tr>
<tr>
<td>PATH*3610</td>
<td>0.50</td>
<td>Principles of Disease</td>
</tr>
<tr>
<td>TOX*3690</td>
<td>0.50</td>
<td>Pharmaceutical Analysis - Advanced</td>
</tr>
<tr>
<td>XSEN*3200</td>
<td>0.50</td>
<td>Pharmaceutical Organic Chemistry</td>
</tr>
</tbody>
</table>

#### Option B (at Seneca)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.50 credits from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSEN*3030</td>
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<td>Pharmacology and Applied Toxicology</td>
</tr>
<tr>
<td>XSEN*3040</td>
<td>0.50</td>
<td>Occupational Health and Chemistry</td>
</tr>
<tr>
<td>XSEN*3060</td>
<td>0.50</td>
<td>Pharmaceutical Analysis - Advanced</td>
</tr>
<tr>
<td>XSEN*3070</td>
<td>0.50</td>
<td>Pharmaceutical Product Formulations</td>
</tr>
<tr>
<td>XSEN*3090</td>
<td>0.50</td>
<td>Biopharmaceuticals</td>
</tr>
<tr>
<td>XSEN*3220</td>
<td>0.50</td>
<td>Introduction to Pharmaceutical Manufacturing</td>
</tr>
</tbody>
</table>

Note: All XSEN courses are taught at the Seneca@York campus of Seneca College in Toronto. (For more information, go to: http://www.chemistry.uoguelph.ca/bpcih/)

### Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*2000</td>
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<td>Co-op Work Term II</td>
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</table>

### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*3000</td>
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<td>Co-op Work Term III</td>
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</tbody>
</table>

### Semester 7 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.50 electives or restricted electives *</td>
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### Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*4000</td>
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<td>Co-op Work Term IV</td>
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### Semester 8 - Fall

<table>
<thead>
<tr>
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<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>One of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM*4730</td>
<td>0.50</td>
<td>Synthetic Organic Chemistry</td>
</tr>
<tr>
<td>CHEM*4740</td>
<td>0.50</td>
<td>Topics in Bio-Organic Chemistry</td>
</tr>
<tr>
<td>2.00 electives or restricted electives *</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Restricted Electives**

**Students are advised to pay particular attention to pre-requisite requirements when choosing individual courses, and seek advice as needed.**

1. MICR*2420 | 0.50 | Introduction to Microbiology |
2. 1.00 credits from the following:
   - MBG*2040 | 0.50 | Foundations in Molecular Biology and Genetics |
   - MCB*2050 | 0.50 | Molecular Biology of the Cell |

### 3. A minimum of 1.5 credits at the 4000 level and 2.5 credits at the 3000/4000 level from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*3560</td>
<td>0.50</td>
<td>Structure and Function in Biochemistry</td>
</tr>
<tr>
<td>BIOC*4520</td>
<td>0.50</td>
<td>Metabolic Processes</td>
</tr>
<tr>
<td>BIOC*4540</td>
<td>0.75</td>
<td>Enzymology **</td>
</tr>
<tr>
<td>BIOC*4580</td>
<td>0.50</td>
<td>Membrane Biochemistry</td>
</tr>
<tr>
<td>BIOM*3090</td>
<td>0.50</td>
<td>Principles of Pharmacology **</td>
</tr>
<tr>
<td>BIOM*3200</td>
<td>1.00</td>
<td>Mammalian Physiology</td>
</tr>
<tr>
<td>BIOM*4090</td>
<td>0.50</td>
<td>Pharmacology **</td>
</tr>
<tr>
<td>CHEM*3360</td>
<td>0.50</td>
<td>Environmental Chemistry and Toxicology</td>
</tr>
<tr>
<td>CHEM*3440</td>
<td>0.50</td>
<td>Analytical Chemistry III: Analytical Instrumentation</td>
</tr>
<tr>
<td>CHEM*3640</td>
<td>0.50</td>
<td>Chemistry of the Elements I</td>
</tr>
<tr>
<td>CHEM*3650</td>
<td>0.50</td>
<td>Chemistry of the Elements II **</td>
</tr>
<tr>
<td>CHEM*3760</td>
<td>0.50</td>
<td>Organic Chemistry III</td>
</tr>
<tr>
<td>CHEM*4010</td>
<td>0.50</td>
<td>Chemistry and Industry</td>
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<tr>
<td>CHEM*4400</td>
<td>0.50</td>
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</tr>
<tr>
<td>CHEM*4630</td>
<td>0.50</td>
<td>Bioinorganic Chemistry **</td>
</tr>
<tr>
<td>CHEM*4720</td>
<td>0.50</td>
<td>Organic Reactivity **</td>
</tr>
<tr>
<td>CHEM*4730</td>
<td>0.50</td>
<td>Synthetic Organic Chemistry **</td>
</tr>
<tr>
<td>CHEM*4740</td>
<td>0.50</td>
<td>Topics in Bio-Organic Chemistry</td>
</tr>
<tr>
<td>CHEM*4900</td>
<td>1.00</td>
<td>Chemistry Research Project I **</td>
</tr>
<tr>
<td>CHEM*4910</td>
<td>1.00</td>
<td>Chemistry Research Project II **</td>
</tr>
<tr>
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<td>Molecular Genetics **</td>
</tr>
<tr>
<td>MCB*4050</td>
<td>0.50</td>
<td>Protein and Nucleic Acid Structure **</td>
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<tr>
<td>MICR*3230</td>
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<td>Immunology</td>
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<tr>
<td>NUTR*3210</td>
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<td>Fundamentals of Nutrition</td>
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<tr>
<td>PATH*3610</td>
<td>0.50</td>
<td>Principles of Disease</td>
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<tr>
<td>TOX*3690</td>
<td>0.50</td>
<td>Pharmaceutical Analysis - Advanced</td>
</tr>
<tr>
<td>XSEN*3200</td>
<td>0.50</td>
<td>Pharmaceutical Organic Chemistry</td>
</tr>
</tbody>
</table>

### Biological Science (BIOS)

#### College of Biological Science

#### Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. This major will require the completion of 20.00 credits as indicated below:

#### Schedule of Studies

##### Semester 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
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<td>Discovering Biodiversity</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>PHYS*1070</td>
<td>0.50</td>
<td>Introductory Physics for Life Sciences</td>
</tr>
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</table>

0.50 Arts or Social Science electives

Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedds

##### Semester 2

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>BIOL*1080</td>
<td>0.50</td>
<td>Biological Concepts of Health</td>
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<tr>
<td>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>PHYS*1080</td>
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<td>Physics for Life Sciences</td>
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0.50 Arts or Social Science electives

##### Semester 3

<table>
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<tr>
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<th>Credits</th>
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<tr>
<td>BIOL*2400</td>
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<td>Evolution</td>
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</tr>
<tr>
<td>BIOC*2580</td>
<td>0.50</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
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<td>0.50 Arts or Social Science elective</td>
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##### Semester 4

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<tr>
<td>STAT*2040</td>
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<td>Statistics I</td>
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<tr>
<td>BIOC*2580</td>
<td>0.50</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>1.00 electives or restricted electives *</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Last Revision: Oct. 19, 2012
0.50 Arts or Social Science elective

**Semester 5 to 8**

2.50 in each semester*

* Restricted Electives

1. A minimum of 2.00 credits of Arts and/or Social Science electives are required. The list of approved Arts and Social Science electives for B.Sc. students is available at: [http://www.bsc.uoguelph.ca/Approved_electives.shtml#arts](http://www.bsc.uoguelph.ca/Approved_electives.shtml#arts)

2. A minimum of 0.50 credits in Ecology:
   
   - BIOL*2060 [0.50] Ecology
   - BIOL*3110 [0.50] Population Ecology
   - BOT*3050 [0.50] Plant Functional Ecology

3. A minimum of 0.50 credits in Mathematical or Computational Science:
   
   - CIS*1000 [0.50] Introduction to Computer Applications
   - CIS*1200 [0.50] Introduction to Computing
   - MATH*2080 [0.50] Elements of Calculus II
   - STAT*2050 [0.50] Statistics II

4. A minimum of 0.50 credits in Physiology:
   
   - BIOM*3200 [1.00] Mammalian Physiology
   - BOT*2100 [0.50] Life Sciences of Plants
   - HK*3940 [1.25] Human Physiology
   - ZOO*3200 [0.50] Comparative Animal Physiology I

5. 5.50 additional Biological Science credits of which 4.00 must be at the 3000 or 4000 level. The list of approved science electives is posted at [http://www.bsc.uoguelph.ca/](http://www.bsc.uoguelph.ca/).

**Credit Summary (20.00 Total Credits)**

4.00 - First-year science core

3.50 - Required science courses semesters 3 - 8 (# 2, 3 and 4 in restricted elective list)

5.50 - Approved Biological Science electives of which 4.00 must be 3000/4000 level (# 5 in restricted elective list)

3.00 - Approved Science electives of which 2.00 must be 3000/4000 level* May include 1 of BIOL*1020, CHEM*1060, PHYS*1020

2.00 - Approved Arts and/or Social Science electives

2.00 - Electives

*Of the total credits required, students are required to complete 16.00 credits in science of which a minimum of 2.00 credits must be at the 4000 level and an additional 4.00 credits must be at the 3000 or 4000 level.

**Biology (BIOL)**

### College of Biological Science

#### Minor (Honours Program)

A minor in Biology consists of a minimum of 5.00 credits including the following courses:

- **BIOL*1070** [0.50] Discovering Biodiversity
- **BIOL*1090** [0.50] Introduction to Molecular and Cellular Biology
- **MBG*2040** [0.50] Foundations in Molecular Biology and Genetics

One of:

- **BIOL*2060** [0.50] Ecology
- **BIOL*3110** [0.50] Population Ecology
- **BOT*3050** [0.50] Plant Functional Ecology

Of the additional 3.00 credits approved science electives, students must complete a minimum of 1.5 credits at the 3000 or 4000 level, from courses offered by the following departments: Human Health and Nutritional Sciences, Integrative Biology and Molecular and Cellular Biology. **BIOL*1080** is a prerequisite for some CBS courses. This minor is restricted to students registered in B.Sc. majors in the Physical Sciences, B.A.S., and the B.A. degree programs.

**Bio-Medical Science (BIOM)**

This joint program of the Department of Human Health and Nutritional Sciences and the Department of Biomedical Sciences provides students with a broad and integrated foundational overview of human and animal health through the study of function (biochemistry and physiology), structure (anatomy and histology), and paraclinical sciences (epidemiology and pharmacology). The program prepares students well for more advanced studies or applied training in many health-related fields including clinical practice, business, government, research and education. Through the use of electives, students may structure a program emphasizing aspects of health and disease. For more information on recommended electives contact the Faculty Advisor of the major.

In addition, this program is designed to partially meet the current requirements for entry into medical schools in Ontario (a student interested in meeting these requirements should check the present admission requirements for the medical schools), as well as entry into the DVM program of the Ontario Veterinary College.
3. Advance Study Electives - 2.00 credits from BIOM*4030, BIOM*4050, BIOM*4070, BIOM*4090, BIOM*4110, BIOM*4150, BIOM*4180, BIOM*4210, BIOM*4220, BIOM*4300, BIOM*4420, BIOM*4500, BIOM*4510, BIOM*4521/2, HK*4070, HK*4230, HK*4360, HK*4371/2, HK*4441/2, HK*4460, NUTR*4320, NUTR*4350, NUTR*4360, NUTR*4510 TOX*4000.

4. Arts and Social Science Electives - 2.00 credits (1.00 credits must be from: PHIL*2030, PHIL*2070, PHIL*2100, PHIL*2120, PHIL*2180, PSYC*XXXX, SOC*XXXX)

Biotechnology (BIOT)
Department of Molecular and Cellular Biology, College of Biological Science

Minor (Honours Program)
A minimum of 5.00 credits is required including:
- BIOC*3560 [0.50] Structure and Function in Biochemistry
- MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
- MICR*2420 [0.50] Introduction to Microbiology
- MICR*2430 [0.50] Microbiology Methods I

0.50 credits from:
- ENGG*2660 [0.50] Biological Engineering Systems I
- ENGG*3380 [0.50] Bio-Process Engineering
- FOOD*2410 [0.50] Introduction to Food Processing
- FOOD*2420 [0.50] Introduction to Food Microbiology
- FOOD*2620 [0.50] Food Engineering Principles

1.00 credits from:
- ECON*1050 [0.50] Introductory Microeconomics
- ECON*1100 [0.50] Introductory Macroeconomics
- ECON*2310 [0.50] Intermediate Macroeconomics
- ECON*2410 [0.50] Intermediate Microeconomics
- MCS*1000 [0.50] Introduction Marketing

A minimum of 1.50 credits from:
- ANSC*4050 [0.50] Biotechnology in Animal Science
- BIOC*4540 [0.75] Enzymology
- BIOL*3300 [0.50] Applied Bioinformatics
- FOOD*3260 [0.50] Industrial Microbiology
- MBG*3660 [0.50] Genomics
- MBG*4240 [0.50] Applied Molecular Genetics
- MCB*4050 [0.50] Protein and Nucleic Acid Structure
- MICR*3320 [0.50] Immunology
- MICR*4180 [0.50] Microbial Processes in Environmental Management
- MICR*4280 [0.50] Microbial Ecology
- PBOI*3750 [0.50] Plant Tissue Culture
- PBOI*4750 [0.50] Genetic Engineering of Plants

Business Administration (BADM)
Department of Economics and Finance, College of Management and Economics

Minor (Honours Program)
A minimum of 5.00 credits is required.
- ACCT*2220 [0.50] Financial Accounting
- ACCT*2230 [0.50] Management Accounting
- ECON*1050 [0.50] Introductory Microeconomics
- ECON*1100 [0.50] Introductory Macroeconomics
- ECON*2310 [0.50] Intermediate Macroeconomics
- ECON*2410 [0.50] Intermediate Microeconomics
- ECON*2560 [0.50] Theory of Finance
- MCS*1000 [0.50] Introductory Marketing
- MCS*3040 [0.50] Business and Consumer Law

One of:
- BUSI*2090 [0.50] Individuals and Groups in Organizations
- FARE*3310 [0.50] Operations Management

Students wishing to acquire further depth in Business Administration should consider taking electives from the schedules of study listed under Economics in the B.A. degree, Industry and Finance in the B.Comm. degree, and Management Economics in the B.A.H. degree and Management Economics in the B.Comm. degree.

Chemical Physics (CHPY)
Administered by the Office of the Dean, College of Physical and Engineering Science

Major (Honours Program)
Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum of 21.25 credits is required. At least 1.00 credits must be from Arts and/or Social Science courses.

Semester 1
- CHEM*1040 [0.50] General Chemistry I
- CIS*1500 [0.50] Introduction to Programming

IPS*1500 [1.00] Integrated Mathematics and Physics I

One of:
- BIOL*1070 [0.50] Discovering Biodiversity
- BIOL*1080 [0.50] Biological Concepts of Health
- BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

Students who are lacking one 4U grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedstx

Semester 2
- CHEM*1050 [0.50] General Chemistry II
- IPS*1510 [1.00] Integrated Mathematics and Physics II

One of:
- BIOL*1070 [0.50] Discovering Biodiversity
- BIOL*1080 [0.50] Biological Concepts of Health
- BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

0.50 Arts or Social Science electives

Semester 3
- CHEM*2060 [0.50] Structure and Bonding
- MATH*2160 [0.50] Linear Algebra I
- MATH*2200 [0.50] Advanced Calculus I
- PHYS*2440 [0.75] Mechanics I
- PHYS*2460 [0.75] Electricity and Magnetism I

Semester 4
- CHEM*2070 [0.50] Structure and Spectroscopy
- CHEM*2480 [0.50] Analytical Chemistry I
- MATH*2170 [0.50] Differential Equations I
- PHYS*2450 [0.75] Mechanics II
- PHYS*2470 [0.75] Electricity and Magnetism II

Semester 5
- CHEM*2820 [0.50] Thermodynamics and kinetics
- CHEM*3860 [0.50] Quantum Chemistry
- PHYS*3100 [0.75] Electronics
- PHYS*3320 [0.50] Quantum Mechanics I
- PHYS*3340 [0.50] Statistical Physics I

Semester 6
- CHEM*3430 [0.50] Analytical Chemistry II: Instrumental Analysis
- PHYS*3320 [0.50] Waves and Optics
- PHYS*4040 [0.50] Quantum Mechanics II

One of:
- CHEM*2700 [0.50] Organic Chemistry I

0.50 Arts or Social Science electives

One of:
- CHEM*3870 [0.50] Molecular Spectroscopy
- CHEM*4880 [0.50] Topics in Advanced Physical Chemistry

Semester 7
- CHEM*3440 [0.50] Analytical Chemistry III: Analytical Instrumentation
- MATH*3100 [0.50] Differential Equations II
- PHYS*4120 [0.50] Atomic and Molecular Physics
- PHYS*4240 [0.50] Statistical Physics II

One of:
- PHYS*4001 [0.50] Research in Physics +

0.50 electives +

Semester 8

One of:
- CHEM*3870 [0.50] Molecular Spectroscopy
- CHEM*4880 [0.50] Topics in Advanced Physical Chemistry

One of:
- CHEM*4900 [1.00] Chemistry Research Project I +

PHYS*4002 [0.50] Research in Physics +

1.00 electives +

Students must complete either (PHYS*4001, PHYS*4002) in semester 7 and 8 or CHEM*4900 in semester 8.

Chemical Physics (Co-op) (CHPY: C)
Administered by the Office of the Dean, College of Physical and Engineering Science

Major (Honours Program)
A minimum of 21.25 credits is required. At least 1.00 credits must be from Arts and/or Social Science courses.

Semester 1 - Fall
- CHEM*1040 [0.50] General Chemistry I
- CIS*1500 [0.50] Introduction to Programming

Last Revision: Oct. 19, 2012
IPS*1500 [1.00] Integrated Mathematics and Physics I
One of:
BIOL*1070 [0.50] Discovering Biodiversity
BIOL*1080 [0.50] Biological Concepts of Health
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

Semester 2 - Winter
CHEM*1050 [0.50] General Chemistry II
IPS*1510 [1.00] Integrated Mathematics and Physics II
One of:
BIOL*1070 [0.50] Discovering Biodiversity
BIOL*1080 [0.50] Biological Concepts of Health
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

One of:
CIS*2500 [0.50] Intermediate Programming
0.50 Arts or Social Science electives

Semester 3 - Fall
CHEM*2060 [0.50] Structure and Bonding
COOP*1100 [0.00] Introduction to Co-operative Education
MATH*2160 [0.50] Linear Algebra I
MATH*2200 [0.50] Advanced Calculus I
PHYS*2440 [0.75] Mechanics I
PHYS*2460 [0.75] Electricity and Magnetism I

Semester 4 - Winter
CHEM*2070 [0.50] Structure and Spectroscopy
CHEM*2480 [0.50] Analytical Chemistry I
MATH*2170 [0.50] Differential Equations I
PHYS*2450 [0.75] Mechanics II
PHYS*2470 [0.75] Electricity and Magnetism II

Summer Semester
COOP*1000 [0.00] Co-op Work Term I ++

Fall Semester
COOP*2000 [0.00] Co-op Work Term II ++

Semester 5 - Winter
CHEM*3430 [0.50] Analytical Chemistry II: Instrumental Analysis
PHYS*3220 [0.50] Waves and Optics

One of:
CHEM*2700 [0.50] Organic Chemistry I
0.50 electives *

One of:
CHEM*3870 [0.50] Molecular Spectroscopy +
0.50 electives *
0.50 electives *

Summer Semester
COOP*3000 [0.00] Co-op Work Term III ++

Semester 6 - Fall
CHEM*2820 [0.50] Thermodynamics and Kinetics
CHEM*3860 [0.50] Quantum Chemistry
MATH*3100 [0.50] Differential Equations II
PHYS*3230 [0.50] Quantum Mechanics I
PHYS*3240 [0.50] Statistical Physics I

Winter Semester
COOP*4000 [0.00] Co-op Work Term IV ++

Summer Semester
COOP*5000 [0.00] Co-op Work Term V ++

Semester 7** - Fall
CHEM*3440 [0.50] Analytical Chemistry III: Analytical Instrumentation
PHYS*3100 [0.75] Electronics
PHYS*4240 [0.50] Statistical Physics II

One of:
CHEM*3640 [0.50] Chemistry of the Elements I
CHEM*3750 [0.50] Organic Chemistry II
0.50 electives *
0.50 electives *

Semester 8** - Winter
PHYS*4040 [0.50] Quantum Mechanics II

One of:
CHEM*3760 [0.50] Organic Chemistry III
0.50 electives *

One of:
CHEM*3870 [0.50] Molecular Spectroscopy +
CHEM*4880 [0.50] Topics in Advanced Physical Chemistry +
0.50 electives *

One of:
PHYS*4300 [0.50] Inquiry in Physics
0.50 electives *
0.50 electives *

* A minimum of 2.00 credits in science courses at the 4000 level is required for graduation.
++ Four work terms are required for the completion of the co-op degree. It is also necessary that there be at least one work term in each of Fall, Winter and Summer semesters. Therefore, one of the summer work terms could be missed and the student would still graduate successfully. Whether the student completes four or five work terms, a report is required for each work term completed. Contact the co-op faculty advisor for further details.

Chemistry (CHEM)

Department of Chemistry, College of Physical and Engineering Science

Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. The major will require the completion of 20.00 credits as indicated below:

Semester 1
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1040 [0.50] General Chemistry I
IPS*1500 [1.00] Integrated Mathematics and Physics I
0.50 Arts or Social Science electives

Semester 2
CHEM*1050 [0.50] General Chemistry II
IPS*1510 [1.00] Integrated Mathematics and Physics II
One of:
BIOL*1070 [0.50] Discovering Biodiversity
BIOL*1080 [0.50] Biological Concepts of Health
0.50 electives

Semester 3
BIOC*2580 [0.50] Introduction to Biochemistry
CHEM*2060 [0.50] Structure and Bonding
CHEM*2400 [0.75] Analytical Chemistry I
MATH*2150 [0.50] Applied Matrix Algebra

Electives to a maximum of 2.75 total credits in this semester *

Semester 4
CHEM*2070 [0.50] Structure and Spectroscopy
CHEM*2700 [0.50] Organic Chemistry I
CHEM*3870 [0.50] Molecular Spectroscopy +
0.50 electives *

Semester 5
CHEM*2820 [0.50] Thermodynamics and Kinetics
CHEM*3640 [0.50] Chemistry of the Elements I
CHEM*3750 [0.50] Organic Chemistry II
CHEM*3860 [0.50] Quantum Chemistry
0.50 electives*

Semester 6
CHEM*3650 [0.50] Chemistry of the Elements II
CHEM*3760 [0.50] Organic Chemistry III
1.50 electives* or restricted electives**

Semester 7 and 8
CHEM*3440 [0.50] Analytical Chemistry III: Analytical Instrumentation
3.00 Chemistry or Biochemistry**
1.50 electives*

* selection of electives is subject to the following:
1. At least 1.00 credits must be in the Arts & Social Sciences.
2. Approval of the Faculty Advisor must be obtained for the selection of courses not listed as restrictive electives.
3. Options for an "Area of Focus" or a minor are available. Subject areas include Biochemistry, Computing and Information Science, Earth Sciences, Environmental Sciences, Mathematical Sciences, and Physics. Please consult with your Faculty Advisor for more detail.

**3.00 credits from the 3000/4000 level as follows:**

1. 1.50 comprising of (CHEM*3870 or CHEM*4880), (CHEM*4620 or CHEM*4630), (CHEM*4720 or CHEM*4730)
2. 1.50 chosen from CHEM*3870, CHEM*4010, CHEM*4400, BIOC*4520, BIOC*4540, BIOC*4580, CHEM*4620, CHEM*4630, CHEM*4720, CHEM*4730, CHEM*4740, CHEM*4880, CHEM*4900, CHEM*4910, MCB*4050, MCB*4080, TOX*4590

Note:
1. Some of these courses may have to be taken in Semester 6.
2. Some of these courses are offered only in alternate years, and some have additional prerequisites for which the student must plan ahead, with the assistance of the faculty advisor.

**Minor (Honours Program)**

A minor in Chemistry consists of at least 5.00 credits including the following courses:

CHEM*1040 [0.50] General Chemistry I

CHEM*1050 [0.50] General Chemistry II

Of the additional 4.00 credits, students will select Chemistry courses (CHEM) at the 2000 level or above including a minimum of 1.00 credits at the 3000 or 4000 level. BIOC*2580 can be counted towards this specialization.

**Chemistry (Co-op) (CHEM:C)**

Department of Chemistry, College of Physical and Engineering Science

**Major (Honours Program)**

The major will require the completion of 20.00 credits as indicated below.

The course content of semesters 1 to 3 is the same as listed in the regular Honours Program Major.

To graduate from the Co-op program a minimum of 4 successfully completed work terms is normally required.

**Semester 1 - Fall**

BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

CHEM*1040 [0.50] General Chemistry I

IPS*1500 [1.00] Integrated Mathematics and Physics I

0.50 Arts or Social Science electives

Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.augoguelph.ca/revisedsub

**Semester 2 - Winter**

CHEM*1050 [0.50] General Chemistry II

COOP*1100 [0.00] Introduction to Co-operative Education

IPS*1510 [1.00] Integrated Mathematics and Physics II

One of:

BIOL*1070 [0.50] Discovering Biodiversity

BIOL*1080 [0.50] Biological Concepts of Health

0.50 electives *

**Semester 3 - Fall**

BIOC*2580 [0.50] Introduction to Biochemistry

CHEM*2060 [0.50] Structure and Bonding

CHEM*2400 [0.75] Analytical Chemistry I

MATH*2150 [0.50] Applied Matrix Algebra

Electives to a maximum of 2.75 total credits in this semester *

**Winter Semester**

COOP*1000 [0.00] Co-op Work Term I

**Semester 4 - Summer**

CHEM*2070 [0.50] Structure and Spectroscopy

CHEM*2700 [0.50] Organic Chemistry I

CHEM*3430 [0.50] Analytical Chemistry II: Instrumental Analysis

MATH*2170 [0.50] Differential Equations I

0.50 electives *

**Semester 5 - Fall**

CHEM*2820 [0.50] Thermodynamics and Kinetics

CHEM*3640 [0.50] Chemistry of the Elements I

CHEM*3750 [0.50] Organic Chemistry II

CHEM*3860 [0.50] Quantum Chemistry

0.50 electives *

**Semester 6 - Winter**

CHEM*3650 [0.50] Chemistry of the Elements II

CHEM*3760 [0.50] Organic Chemistry III

**Semester 7 - Winter**

CHEM*3440 [0.50] Analytical Chemistry III: Analytical Instrumentation

COOP*2000 [0.00] Co-op Work Term II

**Fall Semester**

COOP*3000 [0.00] Co-op Work Term III

2.50 electives* or restricted electives **

**Summer Semester**

COOP*4000 [0.00] Co-op Work Term IV

**Semester 8 - Fall**

CHEM*3440 [0.50] Analytical Chemistry III: Analytical Instrumentation

COOP*4000 [0.00] Co-op Work Term IV

**Note:**

Some of these courses are offered only in alternate years, and some have additional prerequisites for which the student must plan ahead, with the assistance of the faculty advisor.

**Computing and Information Science (CIS)**

Department of Computing and Information Science, College of Physical and Engineering Science

A knowledge of Computing is a complement to most areas of study. The Minor in Computing and Information Science is directed towards students who wish to supplement their studies in another area with some experience in Computing. Students interested in pursuing a Major in Computing can do so through the Bachelor of Computing Degree Program.

**Minor (Honours Program)**

CIS*1500 [0.50] Introduction to Programming

CIS*1910 [0.50] Discrete Structures in Computing I

CIS*2170 [0.75] User Interface Design

CIS*2430 [0.50] Object Oriented Programming

CIS*2500 [0.50] Intermediate Programming

CIS*2520 [0.50] Data Structures

CIS*2750 [0.75] Software Systems Development and Integration

CIS*3530 [0.50] Data Base Systems and Concepts

0.50 additional credits from CIS courses at the 2000 level or above

**Ecology (ECOL)**

Department of Integrative Biology, College of Biological Science

This minor provides a foundation in the principles and methods of ecology. It introduces the knowledge and skills necessary for work in conservation, environmental science and education, resource management, ecological consulting, or nature interpretation.

**Minor (Honours Program)**

A minimum of 5.00 credits is required to complete the minor, which must include:

BIOL*2060 [0.50] Ecology

BIOL*3010 [0.50] Laboratory and Field Work in Ecology

BIOL*3110 [0.50] Population Ecology

BIOL*3120 [0.50] Community Ecology

BIOL*4110 [1.00] Ecological Methods

BIOL*4120 [0.50] Evolutionary Ecology

One of:

BIOL*2400 [0.50] Evolution

BIOL*3020 [0.50] Population Genetics

One of:

BOT*2100 [0.50] Life Strategies of Plants

ZOO*2090 [0.50] Vertebrate Structure and Function

One of:

ENVS*1050 [0.50] Geology and the Environment
ENVS*3040 [0.50] Natural Chemicals in the Environment
ENVS*3210 [0.50] Plant Pathology
ENVS*4040 [0.50] Behaviour of Insects **
ENVS*4100 [0.50] Integrated Management of Invasive Insect Pests **
ENVS*4130 [0.50] Chemical Ecology: Principles & Practice **
MICR*3220 [0.50] Plant Microbiology
MICR*4140 [0.50] Soil Microbiology and Biotechnology
NRS*3000 [0.50] Environmental Issues in Agriculture and Landscape Management
PBIO*4750 [0.50] Genetic Engineering of Plants **

List B - Impacts of Pollution on Living Organisms
Minimum of 1.00 credits from the following list:
BIOL*3450 [0.50] Introduction to Aquatic Environments
BIOL*4350 [0.50] Ecology of Polluted Waters **
BIOL*4610 [0.50] Arctic Ecology
ENVS*3010 [0.50] Climate Change Biology
ENVS*3020 [0.50] Pesticides and the Environment
ENVS*3290 [0.50] Waterborne Disease Ecology
ENVS*4240 [0.50] Biological Activity of Pesticides
GEOG*3020 [0.50] Global Environmental Change
MBG*4270 [0.50] DNA Replication, Recombination and Repair **
MICR*4180 [0.50] Microbial Processes in Environmental Management
PBIO*4530 [0.50] Environmental Pollution Stresses on Plants **
STAT*3510 [0.50] Environmental Risk Assessment
TOX*360 [0.50] Environmental Chemistry and Toxicology

List C - Conservation of Biodiversity & Natural Resources
Minimum of 1.00 credits from the following list:
BIOL*3110 [0.50] Population Ecology
BIOL*3130 [0.50] Conservation Biology
BIOL*4150 [0.50] Wildlife Conservation and Management
BIOL*4500 [0.50] Natural Resource Policy Analysis
BIOL*4600 [0.50] Tropical Ecology
ENVB*2030 [0.50] Current Issues in Forest Science
ENVS*2120 [0.50] Introduction to Environmental Stewardship
ENVS*3080 [0.50] Soil and Water Conservation **
ENVS*3090 [0.50] Insect Diversity and Biology
ENVS*3110 [0.50] Resource Planning Techniques
ENVS*3120 [0.50] Land Utilization
ENVS*3150 [0.50] Aquatic Systems
ENVS*3230 [0.50] Agroforestry Systems **
ENVS*3250 [0.50] Forest Health and Disease
ENVS*3270 [0.50] Forest Biodiversity **
ENVS*4230 [0.50] Biology of Aquatic Insects **
ENVS*4260 [0.50] Field Entomology **
ENVS*4270 [0.50] Insect Biosystematics **
ENVS*4350 [0.50] Forest Ecology **

List D - Supporting Courses
ENVS*3410 [0.50] Independent Research I
ENVS*3420 [0.50] Independent Research II
ENVS*3430 [1.00] Independent Research
ENVS*4410 [1.00] Advanced Independent Research I
ENVS*4420 [1.00] Advanced Independent Research II
ENVS*4430 [2.00] Advanced Independent Research

The following restricted elective courses are required as prerequisites for some courses in lists A, B and C:
BIOL*3120 [0.50] Community Ecology
BOT*2100 [0.50] Life Strategies of Plants
ENVS*2060 [0.50] Soil Science
MCB*2050 [0.50] Molecular Biology of the Cell

Environmental Geoscience and Geomatics (EGG)
Department of Geography, College of Social and Applied Human Sciences
This program provides opportunities for study of the processes and properties of the biophysical environment and a core foundation in the analytical techniques (i.e. Geographical Information Science and Remote Sensing) used for their interpretation, analysis and presentation.
Graduates of the program that select courses required for a ‘Professional Geoscientist’ will meet the academic requirements for eligibility for membership as an Environmental Geoscientist in the Association of Professional Geoscientists of Ontario (APGO), allowing for use of the designation P. Geo. Ontario’s legislation under the Professional Geoscientists Act, 2000 (the Act), requires registration with the APGO of anyone wishing to practice geoscience in Ontario. Details on the course requirements for APGO membership can be found on the Department of Geography website.
Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult with a B.Sc. Faculty Advisor in the Department of Geography. All students are encouraged to consult with the advisor on a regular basis.

The major will require the completion of 20.00 credits as indicated below:

**Semester 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1070</td>
<td>0.50</td>
<td>Discovering Biodiversity</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>ENV*1050</td>
<td>0.50</td>
<td>Geology and the Environment</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>0.50</td>
<td>Physics for Life Sciences</td>
</tr>
</tbody>
</table>

One of:

- MATH*1080  0.50 Elements of Calculus I
- MATH*1200  0.50 Calculus I

Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revised] (http://www.bsc.uoguelph.ca/revised)

**Semester 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>GEOG*1300</td>
<td>0.50</td>
<td>Introduction to the Biophysical Environment</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>0.50</td>
<td>Physics with Applications</td>
</tr>
</tbody>
</table>

0.50 Arts or Social Science electives* (GEOG*1220 is recommended)

**Semester 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*2000</td>
<td>0.50</td>
<td>Geomorphology</td>
</tr>
<tr>
<td>GEOG*2420</td>
<td>0.50</td>
<td>The Earth From Space</td>
</tr>
<tr>
<td>GEOG*2480</td>
<td>0.50</td>
<td>Mapping and GIS</td>
</tr>
</tbody>
</table>

One of:

- GEOG*2460  0.50 Analysis in Geography
- STAT*2040  0.50 Statistics I

0.50 Arts or Social Science electives*

**Semester 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*2110</td>
<td>0.50</td>
<td>Climate and the Biophysical Environment</td>
</tr>
<tr>
<td>GEOG*2210</td>
<td>0.50</td>
<td>Environment and Resources</td>
</tr>
</tbody>
</table>

One of:

- CIS*1200  0.50 Introduction to Computing
- CIS*1500  0.50 Introduction to Programming
- MATH*1210 0.50 Calculus II
- MATH*2080  0.50 Elements of Calculus II

1.00 approved Science electives*

**Semester 5**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>GEOG*3000</td>
<td>0.50</td>
<td>Fluvial Processes</td>
</tr>
<tr>
<td>GEOG*3110</td>
<td>0.50</td>
<td>Biotic and Natural Resources</td>
</tr>
</tbody>
</table>

One of:

- GEOG*3200  0.50 Global Environmental Change
- GEOG*3090  0.50 Gender and Environment
- GEOG*3210  0.50 Management of the Biophysical Environment

1.00 electives, at least 0.50 from approved Science electives*

**Semester 6**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*3420</td>
<td>0.50</td>
<td>Remote Sensing of the Environment</td>
</tr>
<tr>
<td>GEOG*3480</td>
<td>0.50</td>
<td>GIS and Spatial Analysis</td>
</tr>
<tr>
<td>GEOG*3610</td>
<td>0.50</td>
<td>Environmental Hydrology</td>
</tr>
</tbody>
</table>

1.00 electives, at least 0.50 from approved Science electives*

**Semester 7**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*4110</td>
<td>1.00</td>
<td>Environmental Systems Analysis</td>
</tr>
</tbody>
</table>

1.50 electives, at least 1.00 from approved Science electives* (GEOG*4690 is recommended)

**Semester 8**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*4480</td>
<td>1.00</td>
<td>Applied Geographic Information Systems</td>
</tr>
</tbody>
</table>

1.50 electives, at least 1.00 from approved Science electives*

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**Program Requirements**

1. Students are required to complete 16.00 credits in science of which a minimum of 6.00 credits must be 3000 or 4000 level, of which at least 2.00 must be at the 4000 level.

2. * Students should refer to the list of Approved Science and Arts/Social Science electives for BSc students: [http://www.bsc.uoguelph.ca/Approved_electives.shtml](http://www.bsc.uoguelph.ca/Approved_electives.shtml)

**Food Science (FOOD)**

Department of Food Science, Ontario Agricultural College

**Major (Honours Program)**

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor.

---

**Semester 1 - Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>PHYS*1070</td>
<td>0.50</td>
<td>Introductory Physics for Life Sciences</td>
</tr>
</tbody>
</table>

0.50 Arts or Social Science electives

Note: CIS*1200, rather than an Arts or Social Science credit is recommended for those needing to improve their computer skills.

Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revised] (http://www.bsc.uoguelph.ca/revised)

---

**Semester 2 - Winter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
<td>Biological Concepts of Health</td>
</tr>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>MATH*2080</td>
<td>0.50</td>
<td>Elements of Calculus II</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>0.50</td>
<td>Physics for Life Sciences</td>
</tr>
</tbody>
</table>

0.50 Arts or Social Science electives

**Semester 3 - Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2580</td>
<td>0.50</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>CHEM*2880</td>
<td>0.50</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>FOOD*2150</td>
<td>0.50</td>
<td>Introduction to Nutritional and Food Science</td>
</tr>
<tr>
<td>MICR*2420</td>
<td>0.50</td>
<td>Introduction to Microbiology</td>
</tr>
</tbody>
</table>

0.50 electives

**Semester 4 - Winter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOD*2100</td>
<td>0.50</td>
<td>Communication in Food Science</td>
</tr>
<tr>
<td>FOOD*2620</td>
<td>0.50</td>
<td>Food Engineering Principles</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>0.50</td>
<td>Fundamentals of Nutrition</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
</tbody>
</table>

0.50 electives

**Semester 5 - Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOD*3030</td>
<td>0.50</td>
<td>Food Chemistry I</td>
</tr>
<tr>
<td>FOOD*3160</td>
<td>0.75</td>
<td>Food Processing I</td>
</tr>
<tr>
<td>FOOD*3230</td>
<td>0.75</td>
<td>Food Microbiology</td>
</tr>
</tbody>
</table>

0.50 electives

**Semester 6 - Winter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOD*3040</td>
<td>0.50</td>
<td>Food Chemistry II</td>
</tr>
<tr>
<td>FOOD*3170</td>
<td>0.50</td>
<td>Food Processing II</td>
</tr>
<tr>
<td>FOOD*3260</td>
<td>0.50</td>
<td>Industrial Microbiology</td>
</tr>
<tr>
<td>FOOD*3700</td>
<td>0.50</td>
<td>Sensory Evaluation of Foods</td>
</tr>
</tbody>
</table>

0.50 electives

**Semester 7 - Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOD*4120</td>
<td>0.50</td>
<td>Food Analysis</td>
</tr>
<tr>
<td>FOOD*4260</td>
<td>0.50</td>
<td>Food Product Development I</td>
</tr>
</tbody>
</table>

1.50 electives

**Semester 8 - Winter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOD*4270</td>
<td>0.50</td>
<td>Food Product Development II</td>
</tr>
</tbody>
</table>

2.00 electives

**Notes:**

1. ENGL*1200 is recommended for those students needing to improve their English grammar.

2. FOOD*2150 could be replaced by FOOD*2010 with permission of department advisor.

3. Of the 6.50 electives credits:
   At least 2.00 must be Arts or Social Sciences.
   At least 2.00 must be from list of Restricted Electives.
   At least 1.00 must be from additional science electives (1.50 if MCS*3010 is chosen as a Restricted Elective)

**Restricted Electives:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOD*4070</td>
<td>0.50</td>
<td>Food Packaging</td>
</tr>
<tr>
<td>FOOD*4090</td>
<td>0.50</td>
<td>Functional Foods and Nutriceuticals</td>
</tr>
<tr>
<td>FOOD*4110</td>
<td>0.50</td>
<td>Meat and Poultry Processing</td>
</tr>
<tr>
<td>FOOD*4220</td>
<td>0.25</td>
<td>Topics in Food Science</td>
</tr>
<tr>
<td>FOOD*4230</td>
<td>0.25</td>
<td>Research in Food Science</td>
</tr>
<tr>
<td>FOOD*4310</td>
<td>0.50</td>
<td>Food Safety Management Systems</td>
</tr>
<tr>
<td>FOOD*4400</td>
<td>0.50</td>
<td>Dairy Processing</td>
</tr>
<tr>
<td>FOOD*4520</td>
<td>0.50</td>
<td>Utilization of Cereal Grains for Human Food</td>
</tr>
<tr>
<td>MCS*3010</td>
<td>0.50</td>
<td>Quality Management</td>
</tr>
<tr>
<td>POPM*4040</td>
<td>0.50</td>
<td>Epidemiology of Food-borne Diseases</td>
</tr>
</tbody>
</table>

**Credit Summary (20.00 Total Credits)**

- 4.00 - 1st year science required
- 9.50 - Required in semesters 3-8
2.00 - Restricted electives
2.00 - Arts or Social Science electives
1.00 or 1.50 - Additional Science electives (See Note 3 above)
1.00 or 1.50 - Free electives (See Note 3 above)

Students not in the Food Science Major who are seeking further study in Food Science are encouraged to consider the Certificate in Food Science. See Special Study Opportunities, Chapter XI of the Calendar.

**Food Science (Co-op) (FOOD:C)**

Department of Food Science, Ontario Agricultural College

**Major (Honours Program)**

**Semester 1 - Fall**

BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1040 [0.50] General Chemistry I
MATH*1080 [0.50] Elements of Calculus I
PHYS*1070 [0.50] Introductory Physics for Life Sciences

0.50 Arts or Social Science electives

Note: CIS*1200, rather than an Arts or Social Science credit is recommended for those needing to improve their computer skills.

Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revisedcs](http://www.bsc.uoguelph.ca/revisedcs)

**Semester 2 - Winter**

BIOL*1080 [0.50] Biological Concepts of Health
CHEM*1050 [0.50] General Chemistry II
MATH*2080 [0.50] Elements of Calculus II
PHYS*1080 [0.50] Physics for Life Sciences

0.50 Arts or Social Science electives

**Summer Semester**

Off

**Semester 3 - Fall**

BIOC*2580 [0.50] Introduction to Biochemistry
CHEM*2880 [0.50] Physical Chemistry
COOP*1100 [0.00] Introduction to Co-operative Education
FOOD*2150 [0.50] Introduction to Nutritional and Food Science
MICR*2420 [0.50] Introduction to Microbiology

0.50 electives

**Semester 4 - Winter**

FOOD*2100 [0.50] Communication in Food Science
FOOD*2620 [0.50] Food Engineering Principles
NUTR*3210 [0.50] Fundamentals of Nutrition
STAT*2040 [0.50] Statistics I

0.50 electives

**Summer Semester**

COOP*1000 [0.00] Co-op Work Term I

**Semester 5 - Fall**

FOOD*3030 [0.50] Food Chemistry I
FOOD*3160 [0.75] Food Processing I
FOOD*3230 [0.75] Food Microbiology

0.50 electives

**Semester 6 - Winter**

FOOD*3040 [0.50] Food Chemistry II
FOOD*3170 [0.50] Food Processing II
FOOD*3260 [0.50] Industrial Microbiology
FOOD*3700 [0.50] Sensory Evaluation of Foods

0.50 electives

**Summer Semester**

Optional

**Fall Semester**

COOP*2000 [0.00] Co-op Work Term II

**Winter Semester**

COOP*3000 [0.00] Co-op Work Term III

**Semester 7 - Fall**

FOOD*4120 [0.50] Food Analysis
FOOD*4260 [0.50] Food Product Development I

1.50 electives

**Semester 8 - Winter**

FOOD*4270 [0.50] Food Product Development II

2.00 electives

Notes:

See Notes and Credit Summary in Food Science Major.

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**Geographic Information Systems (GIS) and Environmental Analysis**

Department of Geography, College of Social and Applied Human Sciences

**Minor (Honours Program)**

A minimum of 5.00 credits is required from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*1300</td>
<td>0.50</td>
<td>Introduction to the Biophysical Environment</td>
</tr>
<tr>
<td>GEOG*2420</td>
<td>0.50</td>
<td>The Earth From Space</td>
</tr>
<tr>
<td>GEOG*2480</td>
<td>0.50</td>
<td>Mapping and GIS</td>
</tr>
<tr>
<td>GEOG*3420</td>
<td>0.50</td>
<td>Remote Sensing of the Environment</td>
</tr>
<tr>
<td>GEOG*3480</td>
<td>0.50</td>
<td>GIS and Spatial Analysis</td>
</tr>
<tr>
<td>GEOG*4480</td>
<td>1.00</td>
<td>Applied Geographic Information Systems</td>
</tr>
</tbody>
</table>

At least 1.50 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*2110</td>
<td>0.50</td>
<td>Climate and the Biophysical Environment</td>
</tr>
<tr>
<td>GEOG*2210</td>
<td>0.50</td>
<td>Environment and Resources</td>
</tr>
<tr>
<td>GEOG*3110</td>
<td>0.50</td>
<td>Biotic and Natural Resources</td>
</tr>
<tr>
<td>GEOG*3210</td>
<td>0.50</td>
<td>Management of the Biophysical Environment</td>
</tr>
<tr>
<td>GEOG*4110</td>
<td>1.00</td>
<td>Environmental Systems Analysis</td>
</tr>
<tr>
<td>GEOG*4210</td>
<td>0.50</td>
<td>Environmental Governance</td>
</tr>
</tbody>
</table>

**Human Kinetics (HK)**

Department of Human Health and Nutritional Sciences, College of Biological Science

Human Kinetics is concerned with understanding capacities for, and limits of, human movement at different ages and with the role of physical activity in human health. Through the use of electives, students may structure a program emphasizing biomechanics and ergonomics, human population biology or nutrition, exercise and metabolism.

If lacking the fundamentals of word processing, spread sheet use and data management, the student should select CIS*1200 as early in the program as possible.

**Major (Honours Program)**

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum of 20.00 credits, of which 16.00 must be from the list of acceptable science courses, are required

**Semester 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
<td>Biological Concepts of Health</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>PHYS*1070</td>
<td>0.50</td>
<td>Physics for Life Sciences</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
</tbody>
</table>

0.50 arts or social science electives

Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revisedcs](http://www.bsc.uoguelph.ca/revisedcs)

**Semester 2**

<table>
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<tbody>
<tr>
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<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>PHYS*1070</td>
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<td>Physics for Life Sciences</td>
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</table>

0.50 arts or social science electives

**Semester 3**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BIOL*1080</td>
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<td>Biological Concepts of Health</td>
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<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
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<tr>
<td>MATH*1080</td>
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<td>Elements of Calculus I</td>
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<tr>
<td>PHYS*1070</td>
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<td>Physics for Life Sciences</td>
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0.50 arts or social science electives

**Semester 4**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>HK*2270</td>
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<td>Principles of Human Biomechanics</td>
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<tr>
<td>MCB*2050</td>
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<td>Molecular Biology of the Cell</td>
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<tr>
<td>NUTR*3210</td>
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<td>Fundamentals of Nutrition</td>
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0.50 electives

0.50 Arts or Social Science electives

**Semester 5**

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<tr>
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<tr>
<td>HK*3600</td>
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<td>Applied Human Kinetics I</td>
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<tr>
<td>HK*3940</td>
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<td>Human Anatomy: Dissection</td>
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<tr>
<td>HK*3501</td>
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<td>Human Anatomy: Prosection</td>
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**Semester 6**

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<tr>
<td>BIOC*3560</td>
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<td>Structure and Function in Biochemistry</td>
</tr>
<tr>
<td>HK*3100</td>
<td>0.50</td>
<td>Neuromuscular Physiology</td>
</tr>
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<td>HK*4600</td>
<td>0.75</td>
<td>Applied Human Kinetics II</td>
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One of

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<tbody>
<tr>
<td>HK*3402</td>
<td>0.75</td>
<td>Human Anatomy: Dissection (if registered in HK*3401 in semester 5)</td>
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<tr>
<td>HK*3502</td>
<td>0.75</td>
<td>Human Anatomy (if registered in HK*3501 in semester 5)</td>
</tr>
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</table>

Last Revision: Oct. 19, 2012

2012-2013 Undergraduate Calendar
**Semester 7**  
HK*4550 [0.50] Human Cardio-respiratory Physiology  
NUTR*4210 [0.50] Nutrition, Exercise and Energy Metabolism  
1.50 electives or restricted electives  
**Semester 8**  
2.50 electives or restricted electives  

### Restricted Electives  
A minimum of 1.00 credits of restricted electives are required which must be selected from HK*4XXX, NUTR*4XXX (must be an approved B.Sc. Science Elective).  

**Marine and Freshwater Biology (MFB)**  
**Department of Integrative Biology, College of Biological Science**  
The Major in Marine and Freshwater Biology provides a broad ecological perspective on aquatic environments based on the physical as well as the biological sciences. This major prepares students for post-graduate work in the aquatic sciences, and provides a sound science background for students wishing to pursue careers in teaching, government service or the private sector.

### Major (Honours Program)  
Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum total of 20.00 credits is required to complete the major.

#### Semester 1  
- **BIOL*1070** [0.50] Discovering Biodiversity  
- **CHEM*1040** [0.50] General Chemistry I  
- **MATH*1080** [0.50] Elements of Calculus I  
- **PHYS*1070** [0.50] Introductory Physics for Life Sciences  
- **0.50 Arts or Social Science electives**

Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revisedss](http://www.bsc.uoguelph.ca/revisedss).

#### Semester 2  
- **BIOL*1080** [0.50] Biological Concepts of Health  
- **BIOL*1090** [0.50] Introduction to Molecular and Cellular Biology  
- **CHEM*1050** [0.50] General Chemistry II  
- **PHYS*1080** [0.50] Physics for Life Sciences  
- **0.50 Arts or Social Science electives**

#### Semester 3  
- **BIOL*2060** [0.50] Ecology  
- **BIOL*2400** [0.50] Evolution  
- **ZOO*2090** [0.50] Vertebrate Structure and Function  
- **1.00 electives or restricted electives**

#### Semester 4  
- **BIOL*2580** [0.50] Introduction to Biochemistry  
- **MBG*2040** [0.50] Foundations in Molecular Biology and Genetics  
- **STAT*2230** [0.50] Biostatistics for Integrative Biology  
- **ZOO*2700** [0.50] Vertebrate Morphology & Evolution  
- **0.50 electives or restricted electives**

#### Semester 5  
- **BIOL*3450** [0.50] Introduction to Aquatic Environments  
- **ZOO*3200** [0.50] Comparative Animal Physiology I  
- **ZOO*3700** [0.50] Integrative Biology of Invertebrates  
- **1.00 electives or restricted electives**

#### Semester 6  
- **ZOO*3050** [0.50] Developmental Biology  
- **ZOO*3210** [0.50] Comparative Animal Physiology II  
- **1.50 electives or restricted electives**

#### Semester 7  
- **BIOL*4350** [0.50] Biology of Polluted Waters  
- **ZOO*4910** [0.50] Integrative Vertebrate Biology  
- **ZOO*4930** [0.25] Lab Studies in Ichthyology  
- **1.25 electives or restricted electives**

#### Semester 8  
- **BIOL*4010** [0.50] Adaptational Physiology  
- **ZOO*4330** [0.50] Biology of Fishes  
- **ZOO*4570** [0.50] Marine Ecological Processes  
- **1.00 electives or restricted electives**  
  * CIS*1200 is recommended for those needing to improve their computer skills

### Restricted Electives  
1. At least 1.00 credits of Arts and/or Social Science electives are required. The list of approved Arts and Social Science electives for B.Sc. students is available at: [http://www.bsc.uoguelph.ca/Approved_electives.shtml#arts](http://www.bsc.uoguelph.ca/Approved_electives.shtml#arts)  
2. Senior Ecology - a minimum of 0.50 credits from the following list:

- **BIOL*3110** [0.50] Population Ecology  
- **BIOL*3120** [0.50] Community Ecology  

3. Field & Research - a minimum of 0.75 credits from the following list:

- **BIOL*4110** [1.00] Ecological Methods  
- **BIOL*4410** [0.75] Field Ecology  
- **BIOL*4610** [0.75] Arctic Ecology  
- **BIOL*4700** [0.50] Field Biology  
- **BIOL*4710** [0.25] Field Biology  
- **BIOL*4800** [0.50] Field Biology  
- **BIOL*4810** [0.25] Field Biology  
- **IBIO*4500** [0.75] Research in Integrative Biology I  
- **IBIO*4510** [0.75] Research in Integrative Biology II  
- **IBIO*4521/2** [2.00] Thesis in Integrative Biology  
- **ZOO*4300** [0.75] Marine Biology and Oceanography  
- **ZOO*4540** [0.50] Marine and Freshwater Research

Other field or research courses with approval of faculty advisor.

### Credit Summary (20.00 Total Credits)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
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<tr>
<td>7</td>
<td>4.00</td>
</tr>
<tr>
<td>8</td>
<td>2.00</td>
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4.00 - First year science core  
8.75 - Required science courses semesters 3 - 8  
1.25 - Restricted electives (# 2 and 3 in restricted electives list)  
2.00 - Approved science electives  
1.00 - Arts and/or Social Science electives (#1 in restricted electives)  
3.00 - Free electives - any approved elective for B.Sc. Students

### Mathematical Science (MSCI)

**Department of Mathematics & Statistics, College of Physical and Engineering Science**

### Minor (Honours Program)

This requires 1.00 calculus credits and 4.00 other credits chosen from mathematics, statistics, and computing and information science. For these 4.00 credits students will choose at least 0.50 from each discipline. At least 1.00 credits must be at the 3000 level or above. This minor cannot be combined with a major in Mathematics, Statistics, or Computing and Information Science.

### Mathematics (MATH)

**Department of Mathematics and Statistics, College of Physical and Engineering Science**

### Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A total of 20.00 credits is required to complete the Major which includes at least 10.00 credits in Mathematics & Statistics. This major must include at least 6.00 credits at the 3000 or 4000 level from the approved list of science electives of which at least 2.00 credits must be at the 4000 level (and may include STAT*4340). At least 1.00 credits in Arts and Social Science must be completed.

#### Semester 1  
- **CHEM*1040** [0.50] General Chemistry I  
- **CIS*1500** [0.50] Introduction to Programming  
- **IPS*1500** [1.00] Integrated Mathematics and Physics I  

One of:  
- **BIOL*1070** [0.50] Discovering Biodiversity  
- **BIOL*1080** [0.50] Biological Concepts of Health  
- **BIOL*1090** [0.50] Introduction to Molecular and Cellular Biology

Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revisedss](http://www.bsc.uoguelph.ca/revisedss).

#### Semester 2  
- **CHEM*1050** [0.50] General Chemistry II  
- **IPS*1510** [1.00] Integrated Mathematics and Physics II  

One of:  
- **BIOL*1070** [0.50] Discovering Biodiversity  
- **BIOL*1080** [0.50] Biological Concepts of Health  
- **BIOL*1090** [0.50] Introduction to Molecular and Cellular Biology

#### Semester 3  
- **MATH*2000** [0.50] Set Theory  
- **MATH*2160** [0.50] Linear Algebra I  
- **MATH*2200** [0.50] Advanced Calculus I  
- **STAT*2040** [0.50] Statistics I  
- **0.50 Arts or Social Science electives**
Semester 4
MATH*2130 [0.50] Numerical Methods
MATH*2170 [0.50] Differential Equations I
MATH*2210 [0.50] Advanced Calculus II
One of:
MATH*3160 [0.50] Linear Algebra II
0.50 electives
0.50 electives
Semester 5
MATH*3100 [0.50] Differential Equations II
MATH*3200 [0.50] Real Analysis
One of:
MATH*3130 [0.50] Abstract Algebra
MATH*3240 [0.50] Operations Research
One of:
STAT*3100 [0.50] Introductory Mathematical Statistics I
STAT*3240 [0.50] Applied Regression Analysis
0.50 electives
Note: Students who wish to take STAT*4340 in semester 8 should take STAT*3100 in semester 5, STAT*3110 in semester 6 and STAT*3240 in semester 5 or 7.
Semester 6
MATH*3260 [0.50] Complex Analysis
One of:
MATH*3160 [0.50] Linear Algebra II (if not taken in Sem. 4)
0.50 electives
1.50 electives
Semester 7
0.50 credits from a 4000 level mathematics
1.50 electives**
One of:
MATH*3130 [0.50] Abstract Algebra
MATH*3240 [0.50] Operations Research
Semester 8
1.00 credits from a 4000 level mathematics **
1.50 electives
*A student selecting STAT*3100 should take STAT*3110 in semester 6.
**Students are reminded that the major requires 2.00 credits (four courses) at the 4000 level in Mathematics.

Minor (Honours Program)
A total of 5.00 credits is required to complete the Minor, including:
2.50 credits from:
(MATH*1080 or MATH*1200)
(MATH*1210 or MATH*2080)
MATH*2000 [0.50] Set Theory
(MATH*2150 or MATH*2160)
MATH*2200 [0.50] Advanced Calculus I
0.50 Statistics (STAT*) credits at the 2000 level or above.
2.00 additional Mathematics credits at the 2000 level or above, including 1.50 credits at the 3000 or 4000 level.

Microbiology (MICR)
Department of Molecular and Cellular Biology, College of Biological Science
Microbiology programs are designed to give students a good understanding of microorganisms, including diversity, ecology, physiology, molecular genetics, current approaches in bacterial genomics/proteomics, and microbial associations with animal hosts and the environments. Such knowledge will provide the basis for further work with microbes in medicine, agricultural industries (including biotechnology, pharmaceuticals, food and beverage) and the environment (surveillance and bioremediation).

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum of 6.00 science credits must be at the 3000/4000 level of which at least 2.00 credits must be at the 4000 level (including the 1.00 from the restricted elective credits).

Semester 1
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1040 [0.50] General Chemistry I
MATH*1080 [0.50] Elements of Calculus I

PHYS*1070 [0.50] Introductory Physics for Life Sciences
0.50 Arts or Social Science electives
Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revisedss](http://www.bsc.uoguelph.ca/revisedss)

Semester 2
BIOL*1070 [0.50] Discovering Biodiversity
BIOL*1080 [0.50] Biological Concepts of Health
CHEM*1050 [0.50] General Chemistry II
PHYS*1080 [0.50] Physics for Life Sciences
0.50 Arts or Social Science electives

Semester 3
BIOC*2580 [0.50] Introduction to Biochemistry
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
MICR*2420 [0.50] Introduction to Microbiology
STAT*2040 [0.50] Statistics I
0.50 Arts or Social Science electives

Semester 4
BIOL*3560 [0.50] Structure and Function in Biochemistry
MCB*2050 [0.50] Molecular Biology of the Cell
MICR*2430 [0.50] Microbiology Methods I
0.50 electives
0.50 Arts or Social Science electives

Semester 5
MBG*3080 [0.50] Bacterial Genetics
MICR*3420 [0.50] Microbial Diversity
1.50 electives or restricted electives

Semester 6
MBG*3350 [0.75] Laboratory Methods in Molecular Biology I
MICR*3260 [0.50] Microbial Adaptation
MICR*3430 [0.50] Microbiology Methods II
A minimum of 0.75 electives or restricted electives

Semester 7
2.50 electives or restricted electives which can include MCB*4500

Semester 8
2.50 electives or restricted electives which can include MCB*4510

Restricted Electives
1. A minimum of 2.00 credits of Arts and/or Social Science electives are required. The list of approved Arts and Social Science electives for B.Sc. students is available at: [http://www.bsc.uoguelph.ca/Approved_electives.shtml#arts](http://www.bsc.uoguelph.ca/Approved_electives.shtml#arts)

2. 3.50 restricted elective credits of which 1.00 credits must be at the 4000 level.

BIOC*4510 [0.50] Enzymology
BIOC*4580 [0.50] Membrane Biochemistry
ENVS*3290 [0.50] Waterborne Disease Ecology
FOOD*3230 [0.75] Food Microbiology
FOOD*3260 [0.50] Industrial Microbiology
FOOD*4400 [0.50] Dairy Processing
MCB*4060 [0.50] Molecular & Cell Biology of Yeast
MCR*4500 [1.00] Research Project in Molecular & Cellular Biology

MICR*4510 [1.00] Research Project in Molecular & Cellular Biology

MCR*4660 [0.50] Topics in Molecular and Cellular Biology
MICR*4300 [0.50] Mycology
MICR*4320 [0.50] Plant Microbiology
MICR*4330 [0.50] World of Viruses
MICR*4400 [0.50] Pathogenic Bacteriology
MICR*4140 [0.50] Soil Microbiology and Biotechnology*
MICR*4180 [0.50] Microbial Processes in Environmental Management*

MICR*4280 [0.50] Microbial Ecology
MICR*4330 [0.50] Molecular Virology
MICR*4430 [0.50] Medical Virology
MICR*4520 [0.50] Microbial Cell Biology
MICR*4530 [0.50] Immunology II

PATH*3040 [0.50] Principles of Parasitology
*Only 1 of MICR*4140 and MICR*4180 can be used to meet the restricted elective requirements.

Credit Summary (20.00 Total Credits)
4.00 - First year science core
6.25 - Required science courses semesters 3 - 8
3.50 - Restricted electives (#2 in restricted electives list)
A minimum of 2.00 credits must be at the 4000 level and an additional 4.00 credits must be at the 3000 or 4000 level.

Minor (Honours Program)
The minor in Microbiology consists of the following 5.00 credits including:
- BIOC*3560 [0.50] Structure and Function in Biochemistry
- MICR*2420 [0.50] Introduction to Microbiology
- MICR*2430 [0.50] Microbiology Methods I

A minimum of 2.50 credits from:
- FOOD*3230 [0.75] Food Microbiology
- FOOD*3260 [0.50] Industrial Microbiology
- MBG*3080 [0.50] Bacterial Genetics
- MBG*3350 [0.75] Laboratory Methods in Molecular Biology I
- MICR*3090 [0.50] Mycology
- MICR*3220 [0.50] Plant Microbiology
- MICR*3230 [0.50] Immunology
- MICR*3260 [0.50] Microbial Adaptation
- MICR*3330 [0.50] World of Viruses
- MICR*3420 [0.50] Microbial Diversity
- MICR*3430 [0.50] Microbiology Methods II
- MICR*4140 [0.50] Soil Microbiology and Biotechnology
- MICR*4180 [0.50] Microbial Processes in Environmental Management
- MICR*4520 [0.50] Microbial Cell Biology

1.00 credits from:
- MCB*4060 [0.50] Molecular & Cell Biology of Yeast
- MICR*4010 [0.50] Pathogenic Bacteriology
- MICR*4280 [0.50] Microbial Ecology
- MICR*4330 [0.50] Molecular Virology
- MICR*4430 [0.50] Medical Virology
- MICR*4530 [0.50] Immunology II

1.50 electives or restricted electives

Microbiology (Co-op) (MICR.C)

Department of Molecular and Cellular Biology, College of Biological Science

Students in the Major in Microbiology program may take the Co-op option. Students do not begin their first work term until they have completed semester 3 and courses BIOC*1070, BIOC*1080, BIOL*1090 and MICR*2430. Students in the co-op program must also complete COOP*1100 in the second academic semester. At least 3 work terms (COOP*1000, COOP*2900, MCB*3000) are required in the co-op program, and the course requirements are the same as shown for the major program. Some courses must be taken during a different semester than usual, and co-op students generally require an additional semester to meet all the program requirements. Students should plan their programs in consultation with the faculty advisor. A total of 20.00 credits are required to complete the major. A minimum of 6.00 science credits must be at the 3000/4000 level of which at least 2.00 credits must be at the 4000 level (including the 1.00 from the restricted elective credits).

Major (Honours Program)

Semester 1 - Fall

- BIOC*1070 [0.50] Introduction to Molecular and Cellular Biology
- CHEM*1040 [0.50] General Chemistry I
- MATH*1080 [0.50] Elements of Calculus I
- PHYS*1070 [0.50] Introductory Physics for Life Sciences

0.50 Arts or Social Science electives

Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

Semester 2 - Winter

- BIOC*1070 [0.50] Discovering Biodiversity
- BIOC*1080 [0.50] Biological Concepts of Health
- CHEM*1050 [0.50] General Chemistry II
- PHYS*1080 [0.50] Physics for Life Sciences

0.50 Arts or Social Science electives

Summer Semester

No academic semester or work term

Semester 3 - Fall

- BIOC*2580 [0.50] Introduction to Biochemistry
- COOP*1100 [0.00] Introduction to Co-operative Education
- MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
- MICR*2420 [0.50] Introduction to Microbiology
- STAT*2040 [0.50] Statistics I

0.50 Arts or Social Science electives

Semester 4 - Winter

- BIOC*3560 [0.50] Structure and Function in Biochemistry
- MCB*2050 [0.50] Molecular Biology of the Cell
- MICR*2430 [0.50] Microbiology Methods I

0.50 electives

0.50 Arts or Social Science electives

Summer Semester

- COOP*1000 [0.00] Co-op Work Term I

Semester 5 - Fall

- MBG*3080 [0.50] Bacterial Genetics
- MICR*3420 [0.50] Microbial Diversity

1.50 electives or restricted electives

Semester 6 - Winter

- MBG*3350 [0.75] Laboratory Methods in Molecular Biology I
- MICR*3260 [0.50] Microbial Adaptation
- MICR*3430 [0.50] Microbiology Methods II

A minimum of 0.75 electives or restricted electives

Summer - Semester

Optional

Fall Semester

- COOP*2000 [0.00] Co-op Work Term II

Winter Semester

- COOP*3000 [0.00] Co-op Work Term III

Semester 7 - Fall

2.50 electives or restricted electives which can include MCB*4500

Semester 8 - Winter

2.50 electives or restricted electives which can include MCB*4510

Restricted Electives

1. A minimum of 2.00 credits of Arts and/or Social Science electives are required. The list of approved Arts and Social Science electives for B.Sc. students is available at: http://www.bsc.uoguelph.ca/Approved_electives.shtml#Arts

2. 3.50 restricted elective credits of which 1.00 credits must be at the 4000 level.

Restricted Electives

- BIOC*4540 [0.75] Enzymology
- BIOC*4580 [0.50] Membrane Biochemistry
- ENVS*3290 [0.50] Waterborne Disease Ecology
- FOOD*3230 [0.75] Food Microbiology
- FOOD*3260 [0.50] Industrial Microbiology
- FOOD*4400 [0.50] Dairy Processing
- MCB*4060 [0.50] Molecular & Cell Biology of Yeast
- MCB*4500 [1.00] Research Project in Molecular & Cellular Biology I
- MCB*4510 [1.00] Research Project in Molecular & Cellular Biology II
- MCB*4600 [0.50] Topics in Molecular and Cellular Biology
- MICR*3090 [0.50] Mycology
- MICR*3220 [0.50] Plant Microbiology
- MICR*3230 [0.50] Immunology
- MICR*3330 [0.50] World of Viruses
- MICR*4010 [0.50] Pathogenic Bacteriology
- MICR*4140 [0.50] Soil Microbiology and Biotechnology *
- MICR*4180 [0.50] Microbial Processes in Environmental Management *
- MICR*4520 [0.50] Microbial Cell Biology
- MICR*4530 [0.50] Immunology II
- MICR*4550 [0.50] Microbial Cell Biology
- MICR*4560 [0.50] Immunology II
- MICR*4280 [0.50] Microbial Ecology
- MICR*4330 [0.50] Molecular Virology
- MICR*4430 [0.50] Medical Virology
- PATH*3040 [0.50] Principles of Parasitology

*Only 1 of MICR*4140 and MICR*4180 can be used to meet the restricted elective requirements.

Credit Summary (20.00 Total Credits)

- 4.00 - First year science core
- 6.25 - Required science courses semesters 3 - 8
- 3.50 - Restricted electives (# 2 in restricted electives list)
- 2.25 - Approved Science electives
- 2.00 - Approved Arts and/or Social Science electives (#1 in restricted electives)

Of the total credits required, students are required to complete 16.00 credits in science of which a minimum of 2.00 credits must be at the 4000 level and an additional 4.00 credits must be at the 3000 or 4000 level.
Molecular Biology and Genetics (MBG)

Department of Molecular and Cellular Biology, College of Biological Science

The B.Sc. program with a Major in Molecular Biology and Genetics is a broadly based program in genetics including related areas of cell and molecular biology. In consultation with the Faculty Advisor, students may choose a general program or focus their courses in areas such as molecular biology, cell biology, developmental biology, genetics, or agricultural genetics. The program qualifies students for postgraduate training in cell or molecular biology and genetics including clinical genetics and genetic counselling, and provides an excellent background for careers in biotechnology, toxicology, agriculture and medical research. Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor.

Major (Honours Program)

A total of 20.00 credits is required to complete the major.

Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>PHYS*1070</td>
<td>0.50</td>
<td>Introductory Physics for Life Sciences</td>
</tr>
<tr>
<td></td>
<td>0.50</td>
<td>Arts or Social Science electives</td>
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</tbody>
</table>

Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revisedss](http://www.bsc.uoguelph.ca/revisedss)

Semester 2

<table>
<thead>
<tr>
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<tr>
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<td>Discovering Biodiversity</td>
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<td>BIOL*1080</td>
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<td>Biological Concepts of Health</td>
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<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</td>
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<td>PHYS*1080</td>
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<td>CIS*1200</td>
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<td>Introduction to Computing</td>
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<tr>
<td>CIS*1500</td>
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<td>Introduction to Programming</td>
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Semester 3

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<td>Introduction to Biochemistry</td>
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<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
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<tr>
<td>MICR*2420</td>
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<td>Introduction to Microbiology</td>
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<td>STAT*2040</td>
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Semester 4

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<tr>
<td>MBG*2050</td>
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<td>Molecular Biology of the Cell</td>
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<td>MICR*2430</td>
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Semester 5

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<td>Fundamentals of Plant and Animal Genetics</td>
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<td>MBG*3350</td>
<td>0.75</td>
<td>Laboratory Methods in Molecular Biology I</td>
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Semester 6

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<td>MBG*4500</td>
<td>1.00</td>
<td>Research Project in Molecular &amp; Cellular Biology 1</td>
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<td>Electives or restricted electives</td>
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Semester 7*

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<td>1.00</td>
<td>Research Project in Molecular &amp; Cellular Biology 2</td>
</tr>
<tr>
<td></td>
<td>1.50</td>
<td>Electives or restricted electives</td>
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</table>

Semester 8*

*instead of the 2nd semester sequence of MBG*4500 / MBG*4510 students may choose to take MBG*4600 and 1.50 subject area electives at the 4000 level.

Restricted Electives

1. At least 2.00 Arts and/or Social Science electives are required. The list of approved Arts and Social Science electives for B.Sc. students is available at: [http://www.bsc.uoguelph.ca/approved_electives.shtml#arts](http://www.bsc.uoguelph.ca/approved_electives.shtml#arts)

2. Physiology Elective - 0.50 credits

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<tr>
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<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOM*3200</td>
<td>1.00</td>
<td>Mammalian Physiology</td>
</tr>
<tr>
<td>BOT*3310</td>
<td>0.50</td>
<td>Plant Growth and Development</td>
</tr>
<tr>
<td>HK*3940</td>
<td>1.25</td>
<td>Human Physiology</td>
</tr>
<tr>
<td>ZOO*3200</td>
<td>0.50</td>
<td>Comparative Animal Physiology</td>
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</table>

3. Subject Area Electives - 3.00 credits (4.50 if MBG*4600 is taken instead of MBG*4500 and MBG*4510)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3560</td>
<td>0.50</td>
<td>Structure and Function in Biochemistry</td>
</tr>
<tr>
<td>BIO*3020</td>
<td>0.50</td>
<td>Population Genetics</td>
</tr>
<tr>
<td>BIOL*3300</td>
<td>0.50</td>
<td>Applied Bioinformatics</td>
</tr>
<tr>
<td>MBG*3050</td>
<td>0.50</td>
<td>Human Genetics</td>
</tr>
<tr>
<td>MBG*3060</td>
<td>0.50</td>
<td>Quantitative Genetics</td>
</tr>
<tr>
<td>MBG*3080</td>
<td>0.50</td>
<td>Molecular Genetics</td>
</tr>
<tr>
<td>MBG*4010</td>
<td>0.50</td>
<td>Advanced Concepts in Genetics</td>
</tr>
<tr>
<td>MBG*4160</td>
<td>0.50</td>
<td>Plant Breeding</td>
</tr>
<tr>
<td>MBG*4240</td>
<td>0.50</td>
<td>Applied Molecular Genetics</td>
</tr>
<tr>
<td>MBG*4270</td>
<td>0.50</td>
<td>DNA Replication, Recombination and Repair</td>
</tr>
<tr>
<td>MBG*4300</td>
<td>0.50</td>
<td>Plant Molecular Genetics</td>
</tr>
<tr>
<td>MCB*4010</td>
<td>0.50</td>
<td>Advanced Cell Biology</td>
</tr>
<tr>
<td>MCB*4050</td>
<td>0.50</td>
<td>Protein and Nucleic Acid Structure</td>
</tr>
<tr>
<td>MICR*3330</td>
<td>0.50</td>
<td>World of Viruses</td>
</tr>
<tr>
<td>MICR*4330</td>
<td>0.50</td>
<td>Molecular Virology</td>
</tr>
</tbody>
</table>

Credit Summary (20.00 Total Credits)

4.50 - First year science core

6.75 - Required science courses semesters 3 - 8

3.50 - Restricted electives (#2 and 3 in restricted electives list)

1.25 - Approved science electives

2.00 - Arts and/or Social Science electives (#1 in the restricted electives list)

2.00 - Free electives - any approved elective for B.Sc.

Of the total credits required, students are required to complete 16.00 credits in science of which a minimum of 2.00 credits must be at the 4000 level and an additional 4.00 credits must be at the 3000 or 4000 level.

Minor (Honours Program)

A minor in Molecular Biology and Genetics requires 5.00 credits in Molecular Biology and Genetics chosen in consultation with the faculty advisor, and will include:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>MCB*2050</td>
<td>0.50</td>
<td>Molecular Biology of the Cell</td>
</tr>
</tbody>
</table>

A minimum of 4.00 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*3560</td>
<td>0.50</td>
<td>Structure and Function in Biochemistry</td>
</tr>
<tr>
<td>BIOL*3020</td>
<td>0.50</td>
<td>Population Genetics</td>
</tr>
<tr>
<td>BIOL*3300</td>
<td>0.50</td>
<td>Applied Bioinformatics</td>
</tr>
<tr>
<td>MBG*2400</td>
<td>0.50</td>
<td>Fundamentals of Plant and Animal Genetics</td>
</tr>
<tr>
<td>MBG*3050</td>
<td>0.50</td>
<td>Human Genetics</td>
</tr>
<tr>
<td>MBG*3060</td>
<td>0.50</td>
<td>Quantitative Genetics</td>
</tr>
<tr>
<td>MBG*3080</td>
<td>0.50</td>
<td>Bacterial Genetics</td>
</tr>
<tr>
<td>MBG*3100</td>
<td>0.50</td>
<td>Plant Genetics</td>
</tr>
<tr>
<td>MBG*3350</td>
<td>0.75</td>
<td>Laboratory Methods in Molecular Biology I</td>
</tr>
<tr>
<td>MBG*3660</td>
<td>0.50</td>
<td>Genomics</td>
</tr>
<tr>
<td>MBG*4030</td>
<td>0.50</td>
<td>Animal Breeding Methods and Applications</td>
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<tr>
<td>MBG*4040</td>
<td>0.50</td>
<td>Genetics and Molecular Biology of Development</td>
</tr>
<tr>
<td>MBG*4070</td>
<td>0.50</td>
<td>Genetics and Molecular Biology of Development</td>
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<tr>
<td>MBG*4080</td>
<td>0.50</td>
<td>Molecular Genetics</td>
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<tr>
<td>MBG*4110</td>
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<td>Advanced Concepts in Genetics</td>
</tr>
<tr>
<td>MBG*4160</td>
<td>0.50</td>
<td>Plant Breeding</td>
</tr>
<tr>
<td>MBG*4240</td>
<td>0.50</td>
<td>Applied Molecular Genetics</td>
</tr>
<tr>
<td>MBG*4270</td>
<td>0.50</td>
<td>DNA Replication, Recombination and Repair</td>
</tr>
<tr>
<td>MBG*4300</td>
<td>0.50</td>
<td>Plant Molecular Genetics</td>
</tr>
<tr>
<td>MCB*4010</td>
<td>0.50</td>
<td>Advanced Cell Biology</td>
</tr>
<tr>
<td>MCB*4050</td>
<td>0.50</td>
<td>Protein and Nucleic Acid Structure</td>
</tr>
<tr>
<td>MICR*3330</td>
<td>0.50</td>
<td>World of Viruses</td>
</tr>
<tr>
<td>MICR*4330</td>
<td>0.50</td>
<td>Molecular Virology</td>
</tr>
</tbody>
</table>

Nanoscience (NANO)

Administered jointly by the Department of Chemistry and the Department of Physics, College of Physical and Engineering Science.

Major (Honours Program)

The major will require the completion of 20.00 credits as indicated below.

Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>IPS*1510</td>
<td>1.00</td>
<td>Integrated Mathematics and Physics I</td>
</tr>
<tr>
<td>NANO*1000</td>
<td>0.50</td>
<td>Introduction to Nanoscience</td>
</tr>
</tbody>
</table>

Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: [http://www.bsc.uoguelph.ca/revisedss](http://www.bsc.uoguelph.ca/revisedss)

Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>IPS*1510</td>
<td>1.00</td>
<td>Integrated Mathematics and Physics II</td>
</tr>
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</table>
### Chemistry: Inorganic
- Semester 4: CHEM*2480
- Semester 5: CHEM*3640
- Semester 6: CHEM*3650
- Semester 7: CHEM*2820, CHEM*4620
- Semester 8: CHEM*2700

### Chemistry: Organic
- Semester 4: CHEM*2700
- Semester 5: CHEM*3750
- Semester 6: CHEM*3760
- Semester 7: CHEM*2820, CHEM*4730
- Semester 8: CHEM*2480, CHEM*4720

### Chemistry: Physical/Analytical
- Semester 4: CHEM*2480
- Semester 5: CHEM*2820
- Semester 6: CHEM*3430 or CHEM*3870
- Semester 7: CHEM*3440, CHEM*3860
- Semester 8: CHEM*3870, CHEM*3430

### Engineering
- Semester 2: CIS*1500
- Semester 4: ENGG*2450
- Semester 5: ENGG*2410, ENGG*3450
- Semester 6: ENGG*4550
- Semester 7: ENGG*4080

### Mathematics and Statistics
- Semester 4: STAT*2040
- Semester 5: STAT*3100
- Semester 6: MATH*2130
- Semester 7: NANO*4500, MATH*3240
- Semester 8: NANO*4510, MATH*3160

### Physics
- Semester 4: PHYS*2320, PHYS*2340
- Semester 5: PHYS*3240, MATH*2200
- Semester 6: PHYS*3220
- Semester 7: PHYS*4240, PHYS*4180
- Semester 8: PHYS*4040

*Note: Courses marked with an asterisk may require additional prerequisites. Students should consult the relevant course descriptions for further information.

### Nanoscience (NANO:C)

#### Major (Honours Program)

The major will require the completion of 20.00 credits as indicated below. To graduate from the co-op program, a minimum of 4 successfully completed work terms is normally required.

### Semester 1 - Fall
- BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
- CHEM*1040 [0.50] General Chemistry I
- IPS*1500 [1.00] Integrated Mathematics and Physics I
- NANO*1000 [0.50] Introduction to Nanoscience

### Semester 2 - Winter
- BIOL*1070 [0.50] Discovering Biodiversity
- BIOL*1080 [0.50] Biological Concepts of Health

### Semester 3 - Fall
- CHEM*2060 [0.50] Structure and Bonding
- MATH*2160 [0.50] Linear Algebra I
- NANO*2000 [0.50] Synthesis of Nanomaterials
- PHYS*2310 [0.50] Mechanics I
- PHYS*2330 [0.50] Electricity and Magnetism I

### Semester 4 - Winter
- CHEM*2070 [0.50] Structure and Spectroscopy
- MATH*2170 [0.50] Differential Equations I
- NANO*2100 [0.50] Analysis of Nanomaterials

### Semester 5 - Fall
- One of:
  - CHEM*3860 [0.50] Quantum Chemistry
  - PHYS*3230 [0.50] Thin Film Science
  - NANO*3500 [0.50] Computational Methods in Materials Science

### Semester 6 - Winter
- NANO*3200 [0.50] Nanolithographic Techniques
- NANO*3300 [0.50] Spectroscopy of Nanomaterials
- NANO*3700 [0.50] Introduction to Quantum Computing

### Semester 7 - Winter
- NANO*4100 [0.50] Biological Nanomaterials

### Semester 8 - Winter
- One of:
  - NANO*3200 [0.50] Nanolithographic Techniques
  - NANO*3300 [0.50] Spectroscopy of Nanomaterials
  - NANO*3700 [0.50] Introduction to Quantum Computing

### Summer Semester
- COOP*1000 [0.00] Co-op Work Term I
A minor in Neuroscience shall include a minimum of 5.00 credits including:

NEUR*4000 [0.50] Current Issues in Neuroscience
PSYC*2410 [0.50] Behavioural Neuroscience I

A minimum of 0.50 credits from:

<table>
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<th>Title</th>
<th>Credits</th>
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<tr>
<td>BIOM*2000</td>
<td>Concepts in Human Physiology for B.A. students</td>
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<td>BIOM*3200</td>
<td>Mammalian Physiology</td>
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<td>HK*3940</td>
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<tr>
<td>ZOO*3200</td>
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A minimum of 1.00 credits from:

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<td>BIOM*4521/2</td>
<td>Research in Biomedical Sciences</td>
<td>[2.00]</td>
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<tr>
<td>HK*4360</td>
<td>Research in Human Health and Nutritional Sciences</td>
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<tr>
<td>HK*4371/2</td>
<td>Research in Human Health and Nutritional Sciences II</td>
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<td>IBOI*4500</td>
<td>Research in Integrative Biology I</td>
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<td>Research in Integrative Biology II</td>
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<td>Research Project in Molecular &amp; Cellular Biology I</td>
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<tr>
<td>NEUR*4401/2</td>
<td>Research in Neurosciences</td>
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<td>Research in Neurosciences</td>
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<tr>
<td>PSYC*4510</td>
<td>Current Issues in Psychology</td>
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<td>PSYC*4870</td>
<td>Honours Thesis I</td>
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<tr>
<td>PSYC*4880</td>
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A minimum of 2.00 credits from:

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<tr>
<td>BIOM*3000</td>
<td>Functional Mammalian Neuroanatomy</td>
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<tr>
<td>BIOM*3090</td>
<td>Principles of Pharmacology</td>
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<tr>
<td>BIOM*4030</td>
<td>Endocrine Physiology</td>
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<tr>
<td>HK*3100</td>
<td>Neuromuscular Physiology</td>
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</tr>
<tr>
<td>MBG*2040</td>
<td>Foundations in Molecular Biology and Genetics</td>
<td>[1.00]</td>
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<tr>
<td>MBG*3050</td>
<td>Human Genetics</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MCB*2050</td>
<td>Molecular Biology of the Cell</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*2030</td>
<td>Biophysics of Excitable Cells</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*2330</td>
<td>Electricity and Magnetism</td>
<td>[0.50]</td>
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<tr>
<td>PSYC*2390</td>
<td>Principles of Sensation and Perception</td>
<td>[0.50]</td>
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<td>PSYC*3030</td>
<td>Neurochemical Basis of Behaviour</td>
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<tr>
<td>PSYC*3410</td>
<td>Behavioural Neuroscience II</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PSYC*4050</td>
<td>Seminar in Animal Learning</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PSYC*4470</td>
<td>Behavioural Neuroscience Seminar</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PSYC*4600</td>
<td>Cognitive Neuroscience</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PSYC*4750</td>
<td>Seminar in Motivation and Emotion</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

Nutritional and Nutraceutical Sciences (NANS)

of the 2.00 additional credits, students may select a minimum of 0.50 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM*3040</td>
<td>Medical Embryology</td>
<td>[0.75]</td>
</tr>
<tr>
<td>MBG*4070</td>
<td>Genetics and Molecular Biology of Development</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ZOO*3050</td>
<td>Developmental Biology</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

The independent research project in the neurosciences must be approved by the faculty advisor.

Please note that some of the restricted electives require prerequisites that are not included in the minor.
At least 0.50 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANSC*3080</td>
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<tr>
<td>BIOM*3200</td>
<td>[1.00]</td>
</tr>
<tr>
<td>HK*3940</td>
<td>[1.25]</td>
</tr>
<tr>
<td>ZOO*3200</td>
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</table>

and 2.00 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANSC*3170</td>
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<tr>
<td>ANSC*3180</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ANSC*4260</td>
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<tr>
<td>ANSC*4270</td>
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<td>ANSC*4280</td>
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<tr>
<td>ANSC*4290</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ANSC*4560</td>
<td>[0.50]</td>
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<tr>
<td>EQU*4020</td>
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<tr>
<td>FOOD*2010</td>
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</tr>
<tr>
<td>HK*4230</td>
<td>[0.50]</td>
</tr>
<tr>
<td>HK*4360</td>
<td>[1.00]</td>
</tr>
<tr>
<td>NUTR*2150</td>
<td>[0.50]</td>
</tr>
<tr>
<td>NUTR*3390</td>
<td>[0.75]</td>
</tr>
<tr>
<td>NUTR*4210</td>
<td>[0.50]</td>
</tr>
<tr>
<td>NUTR*4320</td>
<td>[0.50]</td>
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<tr>
<td>NUTR*4330</td>
<td>[0.75]</td>
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<td>NUTR*4630</td>
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<tr>
<td>NUTR*4510</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

### Physical Science (PSCI)

**College of Physical and Engineering Science**

### Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. This major will require the completion of 20.00 credits as indicated below:

1. **Basic Science Core - 4.00 credits**
   - 1.00 - Biology (BIOL*1070, BIOL*1080, BIOL*1090)
   - 1.00 - Chemistry (CHEM*1040, CHEM*1050)
   - 1.00 - Physics (PHYS*1000, PHYS*1010) or (PHYS*1070, PHYS*1080) or (PHYS*1080, PHYS*1130)
   - 1.00 - Mathematical Science [(MATH*1080, MATH*2080) or (MATH*1200, MATH*1210)]
   - *IPS*1500 can be taken instead of PHYS*1000 and MATH*1200, and IPS*1510 can be taken instead of PHYS*1010 and MATH*1210.

2. **Subject Area Core - 8.00 credits**
   - 0.50 STAT*2040
   - 0.50 (CIS*1200 or CIS*1500)
   - 7.00 physical science credits, including at least 4.00 credits at the 3000 or 4000 level of which 2.00 credits must be at the 4000 level.

3. **Science Electives - 4.00 credits**
   - 4.00 science credits from the List of Approved Science Electives for B.Sc. Students*

4. **Arts and Social Science Electives - 2.00 credits**
   - 2.00 acceptable Arts or Social Science credits selected from the List of Approved B.Sc. Electives*

5. **Free Electives - 2.00 credits**
   - Note: the program must include a total of 6.00 science credits at the 3000 or 4000 level. Of these, at least 2.00 credits must be physical science at the 4000 level.

### Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM*1040</td>
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</tr>
<tr>
<td>PHYS*1000</td>
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</tr>
<tr>
<td>PHYS*1070</td>
<td>[0.50]</td>
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<tr>
<td>PHYS*1080</td>
<td>[0.50]</td>
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<tr>
<td>MATH*1080</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

One of:

- PHYS*1010  [0.50]
- PHYS*1080  [0.50]
- PHYS*1130  [0.50]
- MATH*1210  [0.50]
- MATH*2080  [0.50]
- IPS*1510   [0.50]

* IPS*1500 can be taken instead of PHYS*1000 and MATH*1200.

One of:

- BIOL*1070  [0.50]
- BIOL*1080  [0.50]
- BIOL*1090  [0.50]

### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CHEM*1050</td>
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<tr>
<td>PHYS*1010</td>
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<tr>
<td>PHYS*1080</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

One of:

- MATH*1210  [0.50]
- MATH*2080  [0.50]
- IPS*1510   [0.50]

One of:

- BIOL*1070  [0.50]
- BIOL*1080  [0.50]

### Semester 3

1.50 science electives from the approved list of B.Sc. science electives*

### Semester 4

1.50 science electives from the approved list of B.Sc. science electives*

### Semester 5 to 8

Total of 2.50 credits per semester including at least 2.00 science electives. Sufficient courses at the 3000 or 4000 level must be selected in Semesters 5 through 8 to total 6.00 credits in science at the 3000 or 4000 level with at least 2.00 physical science at the 4000 level.

*approved course lists are available in the B.Sc. Academic Counselling Office or at: http://www.bsc.uoguelph.ca/Approved_electives.shtml

### Honours Physical Science (With a Minor)

The requirements and schedules are the same as for Honours Physical Science. Available Minor subjects are listed at the beginning of the B.SC. Program section under the heading Honours Program Minors.

### Physics (PHYS)

**Department of Physics, College of Physical and Engineering Science**

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. Since some of the required courses are not offered every semester, students entering the Major in Honours Physics should plan their program in consultation with the Department of Physics Faculty Advisor.

### Major (Honours Program)

This major requires the completion of 21.25 credits. At least 1.00 credits must be from Arts or Social Science courses.

### Semester 1*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM*1040</td>
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<tr>
<td>CIS*1500</td>
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<tr>
<td>IPS*1500</td>
<td>[1.00]</td>
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</tbody>
</table>

One of:

- BIOL*1070  [0.50]
- BIOL*1080  [0.50]
- BIOL*1090  [0.50]

* Students are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

### Semester 2*

<table>
<thead>
<tr>
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<tr>
<td>CHEM*1050</td>
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<tr>
<td>IPS*1510</td>
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One of:

- BIOL*1070  [0.50]
- BIOL*1080  [0.50]
<table>
<thead>
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<th>Course Code</th>
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<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
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<td>Introduction to Molecular and Cellular Biology</td>
</tr>
<tr>
<td>MATH*2160</td>
<td>0.50</td>
<td>Linear Algebra I</td>
</tr>
<tr>
<td>MATH*2200</td>
<td>0.50</td>
<td>Advanced Calculus I</td>
</tr>
<tr>
<td>PHYS*2440</td>
<td>0.75</td>
<td>Mechanics I</td>
</tr>
<tr>
<td>PHYS*2460</td>
<td>0.75</td>
<td>Electricity and Magnetism I</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
<tr>
<td>STAT*2120</td>
<td>0.50</td>
<td>Probability and Statistics for Engineers</td>
</tr>
<tr>
<td>PHYS*2170</td>
<td>0.50</td>
<td>Differential Equations I</td>
</tr>
<tr>
<td>PHYS*2260</td>
<td>0.50</td>
<td>Quantum Physics</td>
</tr>
<tr>
<td>PHYS*2450</td>
<td>0.75</td>
<td>Mechanics II</td>
</tr>
<tr>
<td>PHYS*2470</td>
<td>0.75</td>
<td>Electricity and Magnetism II</td>
</tr>
<tr>
<td>PHYS*3100</td>
<td>0.50</td>
<td>Differential Equations II</td>
</tr>
<tr>
<td>PHYS*3230</td>
<td>0.50</td>
<td>Quantum Mechanics I</td>
</tr>
<tr>
<td>PHYS*3240</td>
<td>0.50</td>
<td>Statistical Physics I</td>
</tr>
<tr>
<td>PHYS*3200</td>
<td>0.50</td>
<td>Waves and Optics</td>
</tr>
<tr>
<td>PHYS*3400</td>
<td>0.50</td>
<td>Advanced Mechanics</td>
</tr>
<tr>
<td>PHYS*3510</td>
<td>0.50</td>
<td>Intermediate Laboratory</td>
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<tr>
<td>PHYS*4040</td>
<td>0.50</td>
<td>Quantum Mechanics II</td>
</tr>
<tr>
<td>MATH*3100</td>
<td>0.50</td>
<td>Partial Differential Equations and Special Functions</td>
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<tr>
<td>MATH*3200</td>
<td>0.50</td>
<td>Complex Analysis</td>
</tr>
<tr>
<td>PHYS*4500</td>
<td>0.50</td>
<td>Advanced Physics Laboratory</td>
</tr>
<tr>
<td>PHYS*4810</td>
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<td>Advanced Electromagnetic Theory</td>
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<tr>
<td>PHYS*4820</td>
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<td>Statistical Physics II</td>
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<tr>
<td>PHYS*4801</td>
<td>0.50</td>
<td>Research in Physics</td>
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<tr>
<td>PHYS*4020</td>
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<td>Research in Physics</td>
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<tr>
<td>PHYS*4300</td>
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<td>Inquiry in Physics</td>
</tr>
<tr>
<td>PHYS*4120</td>
<td>0.50</td>
<td>Atomic and Molecular Physics</td>
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<tr>
<td>PHYS*4130</td>
<td>0.50</td>
<td>Subatomic Physics</td>
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<tr>
<td>PHYS*4150</td>
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<td>Solid State Physics</td>
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<tr>
<td>EDRE*3120</td>
<td>0.50</td>
<td>Educational Communication</td>
</tr>
<tr>
<td>ENV*3060</td>
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<td>GEOG*3420</td>
<td>0.50</td>
<td>Remote Sensing of the Environment</td>
</tr>
<tr>
<td>PHYS*4540</td>
<td>0.50</td>
<td>Molecular Biophysics</td>
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<td>Biophysical Methods</td>
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<td>PHYS*4910</td>
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<td>Advanced Topics in Physics I</td>
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<td>Advanced Topics in Physics II</td>
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<td>PHYS*4930</td>
<td>0.50</td>
<td>Advanced Topics in Physics III</td>
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<td>POLS*3370</td>
<td>0.50</td>
<td>Environmental Politics and Governance</td>
</tr>
<tr>
<td>STAT*3240</td>
<td>0.50</td>
<td>Applied Regression Analysis</td>
</tr>
<tr>
<td>STAT*3510</td>
<td>0.50</td>
<td>Environmental Risk Assessment</td>
</tr>
</tbody>
</table>

**Minor (Honours Program)**

A minor in Physics requires 5.00 credits in physics courses including at least 1.00 at the 3000 and 4000 level.

The following four courses, with a weight of 0.75 each, are required:

- PHYS*2440 0.75 Mechanics I
- PHYS*2450 0.75 Mechanics II
- PHYS*2460 0.75 Electricity and Magnetism I
- PHYS*2470 0.75 Electricity and Magnetism II

The following courses are strongly recommended:

- PHYS*1000 0.50 An Introduction to Mechanics
- PHYS*1010 0.50 Introductory Electricity and Magnetism

**Physics (Co-op) (PHYS:C)**

Department of Physics, College of Physical and Engineering Science

Since some of the required courses are not offered every semester, students entering the Major in Physics (Co-op) should plan their program in consultation with the Department of Physics Faculty Advisor. To graduate from the Co-op program a minimum of 4 successfuly completed work terms (COOP*1000, COOP*2000, COOP*3000, COOP*4000) is normally required.

**Major (Honours Program)**

This major requires the completion of 21.25 credits.

**Semester 1 - Fall**

- CHEM*1040 0.50 General Chemistry I
- CIS*1500 0.50 Introduction to Programming
- IPS*1500 1.00 Integrated Mathematics and Physics I
  - One of:
    - BIOL*1070 0.50 Discovering Biodiversity
    - BIOL*1080 0.50 Biological Concepts of Health
    - BIOL*1090 0.50 Introduction to Molecular and Cellular Biology
- Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

**Semester 2 - Winter**

- CHEM*1050 0.50 General Chemistry II
- IPS*1510 1.00 Integrated Mathematics and Physics II
  - One of:
    - BIOL*1070 0.50 Discovering Biodiversity
    - BIOL*1080 0.50 Biological Concepts of Health
    - BIOL*1090 0.50 Introduction to Molecular and Cellular Biology
- Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

**Semester 3 - Fall**

- COOP*1100 0.00 Introduction to Co-operative Education
- MATH*2160 0.50 Linear Algebra I
- MATH*2200 0.50 Advanced Calculus I
- PHYS*2440 0.75 Mechanics I
- PHYS*2460 0.75 Electricity and Magnetism I
  - One of:
    - MATH*3100 0.50 Set Theory
    - STAT*2040 0.50 Statistics I
    - 0.50 Arts or Social Science electives

**Semester 4 - Winter**

- MATH*2170 0.50 Linear Algebra I
- PHYS*2260 0.50 Advanced Calculus I
- PHYS*2440 0.75 Mechanics I
- PHYS*2460 0.75 Electricity and Magnetism I
  - One of:
    - PHYS*2470 0.75 Electricity and Magnetism II
    - STAT*3240 0.50 Applied Regression Analysis
- 0.50 electives

**Summer Semester**

- COOP*1000 0.00 Co-op Work Term I ++

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Last Revision: Oct. 19, 2012
**Semester 5 - Fall**  
MATH*3100 [0.50] Differential Equations II  
PHYS*3100 [0.75] Electronics  
PHYS*3230 [0.50] Quantum Mechanics I  
PHYS*3240 [0.50] Statistical Physics I  
One of:  
MATH*2000 [0.50] Set Theory  
PHYS*4180 [0.50] Advanced Electromagnetic Theory +  
0.50 electives  

**Winter Semester**  
COOP*2000 [0.00] Co-op Work Term II ++  

**Semester 6 - Fall +**  
One of:  
PHYS*4180 [0.50] Advanced Electromagnetic Theory +  
0.50 electives**  
One of:  
CIS*2520 [0.50] Data Structures  
0.50 electives**  
One of:  
MATH*2000 [0.50] Set Theory  
0.50 electives**  
One of:  
PHYS*4240 [0.50] Statistical Physics II  
0.50 electives**  
0.50 electives **  
+ PHYS*4180 is required for graduation. It must be completed in either semester 5 or 6 depending on the year it is available.  

**Semester 7 - Winter +**  
PHYS*3220 [0.50] Waves and Optics  
PHYS*3400 [0.50] Advanced Mechanics  
PHYS*3510 [0.50] Intermediate Laboratory  
PHYS*4040 [0.50] Quantum Mechanics II  
One of:  
MATH*3170 [0.50] Partial Differential Equations and Special Functions  
MATH*3260 [0.50] Complex Analysis  
0.50 electives**  

**Summer Semester**  
COOP*4000 [0.00] Co-op Work Term IV ++  

**Fall Semester**  
COOP*5000 [0.00] Co-op Work Term V ++  

**Semester 8 - Winter +**  
PHYS*4500 [0.50] Advanced Physics Laboratory  
One of:  
PHYS*4130 [0.50] Subatomic Physics  
0.50 electives**  
One of:  
PHYS*4150 [0.50] Solid State Physics  
0.50 electives**  
One of:  
PHYS*4300 [0.50] Inquiry in Physics  
0.50 electives**  
0.50 electives**  
* 1.00 must be taken as Arts or Social Science electives in this Major  
+ students going on to graduate school in physics should take PHYS*4130, PHYS*4150, and PHYS*4240  
**At least 1.50 credits must be from lists A and B below. At least 1.00 credits must be from list A. Substitutions of courses in list B by other 3000 or 4000 level courses must be approved by the Physics Faculty Advisor.  
++Four work terms are required for the completion of the co-op degree. It is also necessary that there be at least one work term in each of Fall, Winter and Summer semesters. Therefore, one of the summer work terms could be missed and the student would still graduate successfully. Whether the student completes four or five work terms, a report is required for each work term completed. Contact the co-op faculty advisor for further details.  

**List A**  
PHYS*4130 [0.50] Subatomic Physics  
PHYS*4150 [0.50] Solid State Physics  
PHYS*4240 [0.50] Statistical Physics II  

**List B**  
EDRD*3120 [0.50] Educational Communication  
ENV*3060 [0.50] Groundwater  
GEOG*3420 [0.50] Remote Sensing of the Environment  
PHYS*4300 [0.50] Inquiry in Physics  
PHYS*4540 [0.50] Molecular Biophysics  
PHYS*4560 [0.50] Biophysical Methods  
PHYS*4910 [0.50] Advanced Topics in Physics I  
PHYS*4920 [0.50] Advanced Topics in Physics II  
PHYS*4930 [0.50] Advanced Topics in Physics III  
POLS*3370 [0.50] Environmental Politics and Governance  
STAT*3240 [0.50] Applied Regression Analysis  
STAT*3510 [0.50] Environmental Risk Assessment  

**Plant Science (PLSC)**  
Department of Plant Agriculture, Ontario Agricultural College  
School of Environmental Sciences, Ontario Agricultural College  
Department of Integrative Biology, College of Biological Science  
Department of Molecular and Cellular Biology, College of Biological Science  

**Major (Honours Program)**  
Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. The major requires the completion of 20.00 credits and students must declare one of the following areas of emphasis: Applied Plant Science, Botany, Plant Biotechnology, Plant Environmental Science or Unspecialized.  

**Semester 1**  
BIOI*1070 [0.50] Discovering Biodiversity  
CHEM*1040 [0.50] General Chemistry I  
MATH*1080 [0.50] Elements of Calculus I  
PHYS*1070 [0.50] Introductory Physics for Life Sciences  
0.50 Arts or Social Science electives  
Students who are lacking one 4U / grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedsed  

**Semester 2**  
BIOI*1090 [0.50] Introduction to Molecular and Cellular Biology  
CHEM*1050 [0.50] General Chemistry II  
PHYS*1080 [0.50] Physics for Life Sciences  
One of:  
CIS*1200 [0.50] Introduction to Computing  
CIS*1500 [0.50] Introduction to Programming  
MATH*2080 [0.50] Elements of Calculus II  
0.50 Arts or Social Science electives  

**Semester 3**  
AGR*2470 [0.50] Introduction to Plant Agriculture  
BIOC*2580 [0.50] Introduction to Biochemistry  
BOT*2100 [0.50] Life Strategies of Plants  
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics  
0.50 Arts and Social Science electives  

**Semester 4**  
MCB*2050 [0.50] Molecular Biology of the Cell  
STAT*2040 [0.50] Statistics I  
One of:  
AGR*2050 [0.50] Agroecology  
BIOL*2060 [0.50] Ecology  
1.00 electives or restricted electives  

**Semester 5**  
BOT*3410 [0.50] Plant Anatomy  
2.00 electives or restricted electives  

**Semester 6**  
BOT*3310 [0.50] Plant Growth and Development  
BOT*3710 [0.50] Plant Diversity and Evolution  
1.50 electives or restricted electives  

**Semester 7**  
2.50 electives or restricted electives  

**Semester 8**  
BOT*4380 [0.50] Metabolism in the Whole Life of Plants  
2.00 electives or restricted electives  

**Program Requirements**  
1. A minimum of 6.00 credits must be at the 3000 or 4000 levels with a minimum of 2.00 credits at the 4000 level.  
2. 1.50 credits of Arts and Social Science electives  

**Electives and Restricted Electives (9.00 credits)**  
1. Students are to choose 5.00 credits for an area of emphasis: Applied Plant Science, Botany, Plant Biotechnology, Plant Environmental Science or Unspecialized.
2. Of the 9.00 credits, 6.50 must be approved science electives.
3. Restricted electives, indicated with †, are non-science electives.
4. Restricted electives, indicated with **, require other restricted electives as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.
5. ‡Students interested in graduate studies are encouraged to take two semesters of Pesticides and the Environment.

Area of Emphasis

Applied Plant Science (APSC)

Crop*4240 [0.50] Weed Science
ENV*5200 [0.50] Soil Science
ENVS*3210 [0.50] Plant Pathology
ENVS*4100 [0.50] Integrated Management of Invasive Insect Pests **

‡ 3.00 credits from:

Crop*3300 [0.50] Grain Crops
Crop*3310 [0.50] Protein and Oilseed Crops
Crop*3340 [0.50] Managed Grasslands
Crop*4220 [0.50] Cropping Systems **
ENVB*4070 [0.50] Biological and Cultural Control of Plant Diseases **
ENVS*2040 [0.50] Plant Health and the Environment
ENVS*3240 [0.50] Current Issues in Agriculture and Landscape Mgmt
ENVS*3020 [0.50] Pesticides and the Environment
ENVS*3080 [0.50] Soil and Water Conservation
ENVS*3140 [0.50] Management of Turfgrass Diseases **
ENVS*3200 [0.50] Environmental Soil Biology
ENVS*4090 [0.50] Soil Management
HORT*2450 [0.50] Introduction to Turfgrass Science
HORT*3010 [0.50] Annual, Perennial and Indoor Plants - Identification and Use
HORT*3050 [0.50] Management of Turfgrass Insect Pests and Weeds **
HORT*3150 [0.50] Principles and Applications of Plant Propagation
HORT*3270 [0.50] Medicinal Plants
HORT*3280 [0.50] Greenhouse Production
HORT*3340 [0.50] Wine-Grape Culture
HORT*3350 [0.50] Vegetable Production
HORT*4200 [0.50] Turf, the Environment and Society **
HORT*4300 [0.50] Postharvest Physiology
HORT*4420 [0.50] Fruit Crops
HORT*4450 [0.50] Advanced Turfgrass Science **
LARC*2240 [0.50] Plants in the Landscape
MBG*3100 [0.50] Plant Genetics
MBG*4160 [0.50] Plant Breeding
NRS*3000 [0.50] Environmental Issues in Agriculture and Landscape Management **
OAGR*2070 [1.00] Introduction to Organic Agriculture
OAGR*4050 [1.00] Design of Organic Production Systems
PBIO*3110 [0.50] Crop Physiology
PBIO*3750 [0.50] Plant Tissue Culture
PBIO*4100 [0.50] Soil Plant Relationships
PBIO*4750 [0.50] Genetic Engineering of Plants

Botany (BOT)

BOT*3050 [0.50] Plant Functional Ecology
MBG*3100 [0.50] Plant Genetics
PBIO*4000 [0.50] Molecular and Cellular Aspects of Plant-Microbe Interactions
PBIO*4150 [0.50] Molecular and Cellular Aspects of Plant Development

‡ 3.00 credits from:

BIOL*3010 [0.50] Laboratory and Field Work in Ecology
BIOL*3110 [0.50] Population Ecology
MBG*4300 [0.50] Plant Molecular Genetics
MICR*2420 [0.50] Introduction to Microbiology
MICR*3090 [0.50] Mycology
MICR*3220 [0.50] Plant Microbiology
PBIO*3110 [0.50] Crop Physiology
PBIO*3750 [0.50] Plant Tissue Culture

PBIO*4750 [0.50] Genetic Engineering of Plants

Plant Biotechnology (PBTC)

MBG*3100 [0.50] Plant Genetics
MBG*3350 [0.75] Laboratory Methods in Molecular Biology I
PBIO*3750 [0.50] Plant Tissue Culture
PBIO*4750 [0.50] Genetic Engineering of Plants

‡ minimum of 2.75 credits from:

BIOL*3300 [0.50] Applied Bioinformatics
MBG*3660 [0.50] Genomics
MBG*4160 [0.50] Plant Breeding
MBG*4300 [0.50] Plant Molecular Genetics
MCB*4010 [0.50] Advanced Cell Biology
MICR*2420 [0.50] Introduction to Microbiology
MICR*3220 [0.50] Plant Microbiology
MICR*3230 [0.50] Immunology
MICR*3330 [0.50] World of Viruses
PBIO*3110 [0.50] Crop Physiology
PBIO*4150 [0.50] Molecular and Cellular Aspects of Plant Development

Plant Environmental Science (PESC)

BOT*3050 [0.50] Plant Functional Ecology
ENV*2040 [0.50] Plant Health and the Environment
ENV*3250 [0.50] Forest Ecology
GEOG*2480 [0.50] Mapping and GIS

‡ 3.00 credits from:

BIOL*3010 [0.50] Laboratory and Field Work in Ecology
BIOL*3110 [0.50] Population Ecology
BIOL*3120 [0.50] Community Ecology
BIOL*3130 [0.50] Conservation Biology **
BIOL*4050 [0.50] Advanced Eukaryotic Microbiology
ENVB*2030 [0.50] Current Issues in Forest Science
ENVB*4070 [0.50] Biological and Cultural Control of Plant Diseases **
ENVS*2060 [0.50] Soil Science
ENVS*2120 [0.50] Introduction to Environmental Stewardship **
ENVS*2330 [0.50] Current Issues in Ecosystem Science and Biodiversity
ENVS*3000 [0.50] Natural Interpretation **
ENVS*3020 [0.50] Pesticides and the Environment
ENVS*3040 [0.50] Natural Chemicals in the Environment
ENVS*3090 [0.50] Insect Diversity and Biology
ENVS*3210 [0.50] Plant Pathology
ENVS*3250 [0.50] Forest Health and Disease
ENVS*4100 [0.50] Integrated Management of Invasive Insect Pests **
GEOG*2210 [0.50] Environment and Resources
GEOG*3210 [0.50] Management of the Biophysical Environment **
GEOG*4210 [0.50] Environmental Governance **
GEOG*4220 [0.50] Local Environmental Management
LARC*3320 [0.50] Principles of Landscape Ecology **
PHIL*2070 [0.50] Philosophy of the Environment
POLS*3370 [0.50] Environmental Politics and Governance

Unspecialized (UNSP)

Choose 5.00 credits from any courses listed in the other areas of emphasis.

Minor (Honours Program)

A minor in Plant Science requires a minimum of 5.00 credits in the Plant Science Program chosen in consultation with the Faculty Advisor. The courses include:

AGR*2470 [0.50] Introduction to Plant Agriculture
BOT*2100 [0.50] Life Strategies of Plants
BOT*3310 [0.50] Plant Growth and Development
BOT*3410 [0.50] Plant Anatomy
BOT*3710 [0.50] Plant Diversity and Evolution
BOT*4380 [0.50] Metabolism in the Whole Life of Plants

2.00 credits from any courses listed in the areas of emphasis.

Restricted electives, indicated with ‡, are non-science electives. Restricted electives, indicated with **, require other restricted electives as prerequisites.

Psychology: Brain & Cognition (PBC)

Department of Psychology, College of Social and Applied Human Sciences

The B.Sc. Major in Psychology: Brain and Cognition offers an opportunity for students to develop interests within learning, perception, cognition, and biopsychology from a sound base in physical and biological sciences. Students primarily interested in other areas within psychology should consult the schedule of studies for the Bachelor of Arts program.

Psychology courses in the above focuses may also be studied via the B.A. program.
Note on Honours Courses
Honours Courses: courses designated with (H) are designed for students in a psychology honours specialization. This includes B.A. Honours Psychology (PSYC) major or minor, B.A. Information Systems and Human Behaviour (ISHB) major, B.Sc. Psychology: Brain and Cognition (PBC), major or minor, and the Neuroscience (NEUR) minor. (H) courses are Honours level requiring for registration a cumulative average of at least 70% in all course attempts in Psychology or registration in the ISHB major, NEUR minor, or PBC major or minor. Unless otherwise specified, all other courses may be taken by students in a general or honours program, providing the prerequisites are met.

Major (Honours Program)

Semester 1
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1040 [0.50] General Chemistry I
MATH*1050 [0.50] Elements of Calculus I
PHYS*1070 [0.50] Introductory Physics for Life Sciences
PSYC*1000 [0.50] Introduction to Psychology

Students who are taking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

Semester 2
CHEM*1050 [0.50] General Chemistry II
PHYS*1080 [0.50] Physics for Life Sciences
One of:
    BIOL*1070 [0.50] Discovering Biodiversity
    BIOL*1080 [0.50] Biological Concepts of Health
One of:
    CIS*1200 [0.50] Introduction to Computing
    CIS*1500 [0.50] Introduction to Programming
One of:
    PSYC*1010 [0.50] Quantification in Psychology
    STAT*2040 [0.50] Statistics I

Semester 3
One of:
    PSYC*2330 [0.50] Principles of Learning
    PSYC*2410 [0.50] Behavioural Neuroscience I
    PSYC*2390 [0.50] Principles of Sensation and Perception
    PSYC*2650 [0.50] Cognitive Psychology
0.50 Arts/NonPsychology Social Science electives *
1.00 elective or restricted electives*

Semester 4
PSYC*2040 [0.50] Research Statistics
PSYC*2360 [0.50] Introductory Research Methods
0.50 Psychology core (PSYC*2330, PSYC*2390, PSYC*2410, PSYC*2650)
One of:
    PSYC*2310 [0.50] Introduction to Social Psychology
    PSYC*2450 [0.50] Introduction to Developmental Psychology
    PSYC*2740 [0.50] Personality
0.50 Arts/NonPsychology Social Science electives *

Semester 5 **
2.50 electives or restricted electives (Students contemplating graduate studies should see Graduate Studies Advisory Note below)

Semester 6 **
PSYC*3250 [0.50] Psychological Measurement
2.00 electives or restricted electives

Semester 7 **
2.50 electives or restricted electives

Semester 8 **
2.50 electives or restricted electives*

Restricted Electives
3.00 credits from:
    PSYC*3030 [0.50] Neurochemical Basis of Behaviour
    PSYC*3100 [0.50] Evolutionary Psychology
    PSYC*3330 [0.50] Memory
    PSYC*3340 [0.50] Psycholinguistics
    PSYC*3370 [0.50] Experimental Design and Analysis
    PSYC*3380 [0.50] Non-experimental Research Methods
    PSYC*3410 [0.50] Behavioural Neuroscience II
    PSYC*3440 [0.50] Cognitive Development
    PSYC*3850 [0.50] Intellectual Disabilities
    PSYC*3900 [0.50] Psychology Research Internship ***
    PSYC*4050 [0.50] Seminar in Animal Learning
    PSYC*4470 [0.50] Behavioural Neuroscience Seminar
    PSYC*4500 [0.50] Current Theoretical Issues in Psychology ***
    PSYC*4510 [0.50] Current Issues in Psychology ***
    PSYC*4600 [0.50] Cognitive Neuroscience
    PSYC*4750 [0.50] Seminar in Motivation and Emotion
    PSYC*4870 [0.50] Honours Thesis I ***
    PSYC*4880 [1.00] Honours Thesis II ***
    PSYC*4900 [0.50] Psychology Seminar

Program Requirements:
1. Students are required to complete 16.00 credits in science of which a minimum of 6.00 credits must be at the 3000/4000 level and at least 2.00 credits of these must be 4000 level

2. Students should refer to the list of Approved Science and Arts/Social Science electives for BSc students: http://www.bsc.uoguelph.ca/Approved_electives.shtml

3. The selection of electives should take into consideration the prerequisites for preferred advanced courses. With the permission of the Psychology Department PRIOR to course selection, up to 2 non-psychology credits can be used towards the psychology credits if such courses enhance the student's psychology program.

** Graduate Studies Advisory Note
Students planning to enter a graduate program in Psychology are advised to complete PSYC*3370 and PSYC*3380 in Semesters 5 and 6, as well as and PSYC*4880 in Semesters 7 and 8, respectively. PSYC*4370 or PSYC*4900 must be completed prior to or concurrently with either PSYC*4870 or PSYC*4880.

*** Depending upon the project chosen, these courses will be evaluated by the faculty advisor to determine their suitability as science electives.

Minor (Honours Program)
A minor in Psychology: Brain and Cognition requires a minimum of 5.00 psychology credits as follows:
PSYC*1000 [0.50] Introduction to Psychology
PSYC*2360 [0.50] Introductory Research Methods
2.00 credits from 2000 level psychology core courses selected as follows:
a. 1.50 credits from:
    PSYC*2330 [0.50] Principles of Learning
    PSYC*2390 [0.50] Principles of Sensation and Perception
    PSYC*2410 [0.50] Behavioural Neuroscience I
    PSYC*2650 [0.50] Cognitive Psychology
b. 0.50 credits from:
    PSYC*2310 [0.50] Introduction to Social Psychology
    PSYC*2450 [0.50] Introduction to Developmental Psychology
    PSYC*2740 [0.50] Personality
1.50 credits from courses in Restricted Electives list above
One of:
    PSYC*1010 [0.50] Quantification in Psychology
    STAT*2040 [0.50] Statistics I

Statistics (STAT)

Department of Mathematics and Statistics, College of Physical and Engineering Science
Students in this program will acquire the ability to use modern statistical methods in a variety of applications, the theoretical understanding necessary to develop statistical methods to meet new needs and a solid preparation for further study. As well, since statistical computing is a fundamental tool for the application and development of modern statistical methods, students will develop skills in computer applications programming using such high-level languages as SAS and S-PLUS.

Students may enter this major in any semester. A student wishing to declare the major must consult the Faculty Advisor. A total of 20.00 credits is required to complete the major. Required 1000 level courses are listed under Semester 1 and Semester 2 of the recommended Schedule of Studies for Major. At least 8.00 credits in Statistics and Mathematics are required at the 2000 level or above, as follows: MATH*2130, MATH*2150, MATH*2160, MATH*2200, STAT*2040, STAT*2050, STAT*3100, STAT*3110, STAT*3210, STAT*3240, STAT*3320. Five other courses (2.50 credits) in Statistics at the 3000 or 4000 level, of which at least four (2.00 credits) must be at the 4000 level. One other course (0.50 credits) in Mathematics or Statistics at the 2000 level or above.

Major (Honours Program)

Semester 1
CHEM*1040 [0.50] General Chemistry I
CIS*1500 [0.50] Introduction to Programming
IPS*1500 [1.00] Integrated Mathematics and Physics I
One of
    BIOL*1070 [0.50] Discovering Biodiversity
    BIOL*1080 [0.50] Biological Concepts of Health
    BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

[0.50] Behavioural Neuroscience Seminar

[0.50] Current Theoretical Issues in Psychology ***

[0.50] Current Issues in Psychology ***

[0.50] Cognitive Neuroscience

[0.50] Seminar in Motivation and Emotion

[0.50] Honours Thesis I ***

[1.00] Honours Thesis II ***

[0.50] Psychology Seminar

[0.50] Behavioural Neuroscience Seminar

[0.50] Current Theoretical Issues in Psychology ***

[0.50] Current Issues in Psychology ***

[0.50] Cognitive Neuroscience

[0.50] Seminar in Motivation and Emotion

[0.50] Honours Thesis I ***

[1.00] Honours Thesis II ***

[0.50] Psychology Seminar

2012-2013 Undergraduate Calendar
Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

### Semester 2

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One of:

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<tbody>
<tr>
<td>BIOL*1070</td>
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<td>Discovering Biodiversity</td>
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<tr>
<td>BIOL*1080</td>
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<td>Biological Concepts of Health</td>
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<td>BIOL*1090</td>
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0.50 Arts or Science electives

### Semester 3

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0.50 Arts or Science electives

### Semester 4

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<td>Statistics II</td>
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1.50 electives

### Semester 5

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<td>STAT*3240</td>
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<td>Applied Regression Analysis</td>
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<tr>
<td>STAT*3320</td>
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<td>Sampling Theory with Applications</td>
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1.00 electives

### Semester 6

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<td>STAT*3110</td>
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<td>Introductory Mathematical Statistics II</td>
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<td>STAT*3210</td>
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</table>

1.50 electives

### Semester 7

2.50 electives

### Semester 8

2.50 electives

*The recommended Arts or Social Science elective can be postponed to a future semester if the student wishes to take STAT*2040 in Semester 2.

**Electives must satisfy the following requirements:

1. Electives must include at least 2.50 credits in Statistics at the 3000 or 4000 level, and an additional 0.50 credits in Statistics or Mathematics at the 2000 level or above.
2. At least 2.00 credits in Statistics must be at the 4000 level.
3. Electives plus core courses must include at least 6.00 credits at the 3000 or 4000 level from the B.Sc. Program Committee approved list of science electives.
4. At least 1.00 credits in Arts or Social Science must be completed.

### Minor (Honours Program)

A total of 5.00 credits in Statistics and Mathematics are required, including:

One of:

<table>
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<td>MATH*1200</td>
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<td>Elements of Calculus II</td>
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<td>STAT*2040</td>
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<td>Statistics I</td>
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<td>Applied Regression Analysis</td>
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</table>

0.50 additional credits in Statistics

0.50 additional credits in Statistics or Mathematics

### Theoretical Physics (THPY)

#### Department of Physics, College of Physical and Engineering Science

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. Since some of the required courses are not offered every semester, students entering the Major in Theoretical Physics should plan their program in consultation with the Faculty Advisor.

### Major (Honours Program)

This major requires the completion of 21.25 credits. At least 1.00 of these credits must be obtained from the completion of Arts and/or Social Science courses.

#### Semester 1

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<td>CIS*1500</td>
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<td>IPS*1500</td>
<td>1.00</td>
<td>Integrated Mathematics and Physics I</td>
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<td>BIOL*1070</td>
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<td>Discovering Biodiversity</td>
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<tr>
<td>BIOL*1090</td>
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<td>Introduction to Molecular and Cellular Biology</td>
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</table>

Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss

#### Semester 2

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</table>

0.50 Arts or Social Science electives

**Note:** students who have taken physics courses other than IPS*1500 or PHYS*1000 in Semester 1 and IPS*1510 or PHYS*1010 in Semester 2, may proceed to Semester 3 with the permission of the Department of Physics.

#### Semester 3

<table>
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<tr>
<td>PHYS*3220</td>
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<tr>
<td>PHYS*3400</td>
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<td>PHYS*3510</td>
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Two of:

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<tr>
<td>PHYS*4300</td>
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<td>Advanced Physics Laboratory</td>
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One 3000 or 4000 level mathematics course

0.50 electives

0.50 electives

**Note:** Either PHYS*4001/2 in semesters 7 and 8, or PHYS*4300 in semester 8, must be taken.

+ PHYS*4180 is required for graduation. It must be completed in either semester 5 or 7 depending on the year it is available.
Semester 8

PHYS*4130 [0.50] Subatomic Physics
PHYS*4150 [0.50] Solid State Physics

One of:

PHYS*4002 [0.50] Research in Physics
PHYS*4300 [0.50] Inquiry in Physics

One 3000 or 4000 level mathematics course

0.50 electives

Note: Either PHYS*4001/2 in semesters 7 and 8, or PHYS*4300 in semester 8, must be taken.

*those not taking MATH*2210 in Semester 4 must consult the Department of Physics

Departmental Advisor

Toxicology (TOX)

Interdisciplinary Program, Departments of Biomedical Sciences, Chemistry, School of Environmental Sciences, Molecular and Cellular Biology

Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum of 20.00 credits are required for graduation.

Semester 1

B I O L *1090 [0.50] Introduction to Molecular and Cellular Biology
C H E M *1040 [0.50] General Chemistry I
M A T H *1080 [0.50] Elements of Calculus I
P H Y S *1070 [0.50] Introductory Physics for Life Sciences

0.50 Arts or Social Science electives

Students who are lacking one 4U /grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.augueph.ca/revisedss

Semester 2

B I O L *1080 [0.50] Biological Concepts of Health
C H E M *1050 [0.50] General Chemistry II
P H Y S *1080 [0.50] Physics for Life Sciences
S T A T *2040 [0.50] Statistics I

0.50 Arts or Social Science electives

Semester 3

B I O C *2580 [0.50] Introduction to Biochemistry
C H E M *2480 [0.50] Analytical Chemistry I
M B G *2040 [0.50] Foundations in Molecular Biology and Genetics
T O X *2000 [0.50] Principles of Toxicology

0.50 Arts or Social Science electives

Semester 4

C H E M *2700 [0.50] Organic Chemistry I
M C B *2050 [0.50] Molecular Biology of the Cell
S T A T *2050 [0.50] Statistics II
T O X *3360 [0.50] Environmental Chemistry and Toxicology

1.00 electives or restricted electives*

Semester 5

B I O C *3560 [0.50] Structure and Function in Biochemistry
C H E M *3750 [0.50] Organic Chemistry II
T O X *3300 [0.50] Analytical Toxicology

1.00 credits from:

B I O M *3200 [1.00] Mammalian Physiology
Z O O *3200 [0.50] Comparative Animal Physiology I

0.50 electives or restricted electives*

Semester 6

B I O M *3090 [0.50] Principles of Pharmacology
E N V S *3020 [0.50] Pesticides and the Environment
P A T H *3610 [0.50] Principles of Disease
S T A T *3200 [0.50] Statistics II
T O X *3360 [0.50] Environmental Chemistry and Toxicology

1.00 electives or restricted electives*

Semester 7

M B G *3350 [0.50] Laboratory Methods in Molecular Biology I
T O X *4000 [0.50] Medical Toxicology
T O X *4590 [0.50] Biochemical Toxicology

1.00 credits from:

M C B *2050 [0.50] Molecular Biology of the Cell
B I O M *3200 [1.00] Mammalian Physiology
Z O O *3200 [0.50] Comparative Animal Physiology I

Semester 8

S T A T *3510 [0.50] Environmental Risk Assessment
T O X *4100 [0.50] Toxicological Pathology
T O X *4200 [0.50] Topics in Toxicology

1.00 electives or restricted electives*

* Restricted Electives

At least 1.50 credits must be completed from the following list of allowable courses.

**Students are advised to pay particular attention to pre-requisite requirements when choosing individual courses, and seek advice as needed.

List A - Research

T O X *4900 [1.00] Toxicology Research Project I
T O X *4910 [1.00] Toxicology Research Project II

List B - Biomedical

B I O M *4070 [0.50] Biomedical Histology
B I O M *4090 [0.50] Pharmacology
M B G *4270 [0.50] DNA Replication, Recombination and Repair
M I C R *3230 [0.50] Immunology
N U T R *3210 [0.50] Fundamentals of Nutrition
N U T R *4510 [0.50] Toxicology, Nutrition and Food

List C - Environmental

B I O L *2060 [0.50] Ecology
B I O L *3450 [0.50] Introduction to Aquatic Environments
B I O L *4350 [0.50] Biology of Polluted Waters
B O T *2100 [0.50] Life Strategies of Plants
E N V S *2060 [0.50] Soil Science
E N V S *4240 [0.50] Biological Activity of Pesticides
M I C R *4180 [0.50] Microbial Processes in Environmental Management
P B I O *4530 [0.50] Environmental Pollution Stresses on Plants

Toxicology (Co-op) (TOX:C)

Interdisciplinary Program, Departments of Biomedical Sciences, Chemistry, School of Environmental Sciences, Molecular and Cellular Biology

Major (Honours Program)

A minimum of 20.00 credits are required for graduation.

Semester 1 - Fall

B I O L *1090 [0.50] Introduction to Molecular and Cellular Biology
C H E M *1040 [0.50] General Chemistry I
M A T H *1080 [0.50] Elements of Calculus I
P H Y S *1070 [0.50] Introductory Physics for Life Sciences

0.50 Arts or Social Science electives

Semester 2 - Winter

B I O L *1080 [0.50] Biological Concepts of Health
C H E M *1050 [0.50] General Chemistry II
C O O P *1100 [0.00] Introduction to Co-operative Education
P H Y S *1080 [0.50] Physics for Life Sciences
S T A T *2040 [0.50] Statistics I

0.50 Arts or Social Science electives

Semester 3 - Fall

B I O C *2580 [0.50] Introduction to Biochemistry
C H E M *2480 [0.50] Analytical Chemistry I
M B G *2040 [0.50] Foundations in Molecular Biology and Genetics
T O X *2000 [0.50] Principles of Toxicology

0.50 Arts or Social Science electives

Winter Semester

C O O P *1000 [0.00] Co-op Work Term I

Semester 4 - Summer

C H E M *2700 [0.50] Organic Chemistry I
P A T H *3610 [0.50] Principles of Disease
S T A T *2050 [0.50] Statistics II
T O X *3360 [0.50] Environmental Chemistry and Toxicology

0.50 electives or restricted electives*

Semester 5 - Fall

B I O C *3560 [0.50] Structure and Function in Biochemistry
C H E M *3750 [0.50] Organic Chemistry II
T O X *3300 [0.50] Analytical Toxicology

1.00 credits from:

M C B *2050 [0.50] Molecular Biology of the Cell
B I O M *3200 [1.00] Mammalian Physiology
Z O O *3200 [0.50] Comparative Animal Physiology I

0.50 electives or restricted electives*

Semester 6 - Winter

B I O C *3560 [0.50] Structure and Function in Biochemistry
C H E M *3750 [0.50] Organic Chemistry II
T O X *3300 [0.50] Analytical Toxicology

1.00 credits from:

C H E M *3750 [0.50] Organic Chemistry II
B I O C *3560 [0.50] Structure and Function in Biochemistry
Z O O *3200 [0.50] Comparative Animal Physiology I

0.50 electives or restricted electives*

Semester 7 - Spring

B I O C *3560 [0.50] Structure and Function in Biochemistry
C H E M *3750 [0.50] Organic Chemistry II
T O X *3300 [0.50] Analytical Toxicology

1.00 credits from:

M C B *2050 [0.50] Molecular Biology of the Cell
B I O M *3200 [1.00] Mammalian Physiology
Z O O *3200 [0.50] Comparative Animal Physiology I

0.50 electives or restricted electives*

Semester 8 - Summer

B I O C *3560 [0.50] Structure and Function in Biochemistry
C H E M *3750 [0.50] Organic Chemistry II
T O X *3300 [0.50] Analytical Toxicology

1.00 credits from:

M C B *2050 [0.50] Molecular Biology of the Cell
B I O C *3560 [0.50] Structure and Function in Biochemistry
Z O O *3200 [0.50] Comparative Animal Physiology I

0.50 electives or restricted electives*
ZOO*3210 [0.50] Comparative Animal Physiology II (if ZOO*3200 taken in semester 5) 
MCR*2050 [0.50] Molecular Biology of the Cell (if BIOM*3200 taken in semester 5) 

1.00 electives or restricted electives*

**Summer Semester**

COOP*2000 [0.00] Co-op Work Term II 

**Fall Semester**

COOP*3000 [0.00] Co-op Work Term III 

**Semester 7 - Winter**

STAT*3510 [0.50] Environmental Risk Assessment 
TOX*4100 [0.50] Toxicological Pathology 
TOX*4200 [0.50] Topics in Toxicology 

1.00 electives or restricted electives* 

**Semester 8 - Fall**

MBG*3350 [0.75] Laboratory Methods in Molecular Biology I 
TOX*4000 [0.50] Medical Toxicology 
TOX*4590 [0.50] Biochemical Toxicology 

0.75 electives or restricted electives* 

* Restricted Electives 

At least 1.50 credits must be completed from the following list of allowable courses. 

**Students are advised to pay particular attention to pre-requisite requirements when choosing individual courses, and seek advice as needed.** 

**List A - Research**

TOX*4900 [1.00] Toxicology Research Project I 
TOX*4910 [1.00] Toxicology Research Project II 

**List B - Biomedical**

BIOM*4070 [0.50] Biomedical Histology 
BIOM*4090 [0.50] Pharmacology 
MBG*4270 [0.50] DNA Replication, Recombination and Repair 
MICR*3230 [0.50] Immunology 
NUTR*3210 [0.50] Fundamentals of Nutrition 
NUTR*4510 [0.50] Toxicology, Nutrition and Food 

**List C - Environmental**

BIOL*2060 [0.50] Ecology 
BIOL*3450 [0.50] Introduction to Aquatic Environments 
BIOL*4350 [0.50] Biology of Polluted Waters 
BOT*2100 [0.50] Life Strategies of Plants 
ENVS*2060 [0.50] Soil Science 
ENVS*4240 [0.50] Biological Activity of Pesticides 
MBG*3280 [0.50] Microbial Processes in Environmental Management 
PBIO*4530 [0.50] Environmental Pollution Stresses on Plants 

**Wildlife Biology and Conservation (WBC)**

Department of Integrative Biology, College of Biological Science

The core of this major will provide students with an integrated foundation in three disciplines necessary to understand the origins, interactions, and protection of biological diversity: evolution, ecology, and conservation biology. After the second semester, the student has the opportunity to take a wide variety of electives, including courses that meet his/her specific interests within one or two of these disciplines. The program offers a sound scientific background in preparation for careers in resource management, conservation, ecological consulting, teaching, and government service. This major also qualifies students for post-graduate work in ecology, evolutionary biology, environmental sciences, or wildlife management. 

**Major (Honours Program)**

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum total of 20.00 credits is required to complete the major. At least 6.00 science credits must be at the 3000 or 4000 level, 2.00 of which must be at the 4000 level. 

**Semester 1**

BIOL*1070 [0.50] Discovering Biodiversity 
CHEM*1040 [0.50] General Chemistry I 
MATH*1080 [0.50] Elements of Calculus I 
PHYS*1070 [0.50] Introductory Physics for Life Sciences 

0.50 Arts or Social Science electives 

Students who are lacking one 4U/grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.uoguelph.ca/revisedss 

**Semester 2**

BIOL*1080 [0.50] Biological Concepts of Health 
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology 
CHEM*1050 [0.50] General Chemistry II 
PHYS*1080 [0.50] Physics for Life Sciences 

0.50 Arts or Social Science electives 

Semester 3

BIOL*2580 [0.50] Introduction to Biochemistry 
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics 

1.50 electives or restricted electives 

Semester 4

BIOL*2060 [0.50] Ecology 
BIOL*2400 [0.50] Evolution 
STAT*2230 [0.50] Biostatistics for Integrative Biology 

1.00 electives or restricted electives 

Semester 5

BIOL*3010 [0.50] Laboratory and Field Work in Ecology 
BIOL*4100 [0.50] Molecular Evolution and Phylogenetics 

1.50 electives or restricted electives 

Semester 6

BIOL*3110 [0.50] Population Ecology 
BIOL*3130 [0.50] Conservation Biology 

1.50 electives or restricted electives 

Semester 7

BIOL*4110 [1.00] Ecological Methods 
BIOL*4150 [0.50] Wildlife Conservation and Management 

1.00 electives or restricted electives 

Semester 8

BIOL*4500 [0.50] Natural Resource Policy Analysis 

2.00 electives or restricted electives 

**Restricted Electives**

Note that some courses have prerequisites, so be sure to consult the undergraduate calendar.

1. A minimum of 1.00 credits of Arts and/or Social Science electives are required. The list of approved Arts and Social Science electives for B.Sc. students is available at: http://www.bsc.uoguelph.ca/revisedss 

2. A minimum of 0.50 credits from:

   - BOT*2100 [0.50] Life Strategies of Plants 
   - ZOO*2090 [0.50] Vertebrate Structure and Function 
   - ZOO*2700 [0.50] Invertebrate Morphology & Evolution 

3. A minimum of 0.50 credits from:

   - BOT*3050 [0.50] Plant Functional Ecology 
   - ZOO*3200 [0.50] Comparative Animal Physiology I 
   - ZOO*3210 [0.50] Comparative Animal Physiology II 

4. A minimum of 0.50 credits from:

   - BIOL*3020 [0.50] Population Genetics 
   - BIOL*4120 [0.50] Evolutionary Ecology 

5. A minimum of 3.00 credits from any of the following lists of courses. The courses are broken into disciplines for which they are most suitable to help students tailor their electives towards a specific field if desired. 

   * Some of the restricted electives will require additional courses outside of the required courses listed in Semesters 3-8 
   
   ** Please note not all restricted electives are considered science electives for B.Sc students. If the non-science restricted electives are chosen, students are reminded that they will still be responsible for meeting the minimum of 16.00 credits in science and that the credit summary may vary from what is specified below. 

**Evolution**

BIOL*3020 [0.50] Population Genetics 
BIOL*3300 [0.50] Applied Bioinformatics 
BOT*3710 [0.50] Plant Diversity and Evolution 
ENVS*3400 [0.50] Sedimentary Environments * 
ENVS*3090 [0.50] Insect Diversity and Biology 
MBG*4080 [0.50] Molecular Genetics * 
MBG*4110 [0.50] Advanced Concepts in Genetics * 
MBG*4270 [0.50] DNA Replication, Recombination and Repair * 
ZOO*2700 [0.50] Invertebrate Morphology & Evolution 
ZOO*3050 [0.50] Developmental Biology 

**Ecology**

ANSC*3180 [0.50] Wildlife Nutrition * 
BIOL*3120 [0.50] Community Ecology 
BIOL*3450 [0.50] Introduction to Aquatic Environments 
ENVS*3000 [0.50] Nature Interpretation 
ENVS*3270 [0.50] Forest Biodiversity * 
ENVS*4350 [0.50] Forest Ecology * 
NUTR*5210 [0.50] Fundamentals of Nutrition 
ZOO*4300 [0.75] Marine Biology and Oceanography * 
ZOO*4570 [0.50] Marine Ecological Processes * 

**Conservation**

BIOL*4350 [0.50] Biology of Polluted Waters *
Credit Summary (20.00 Total Credits)

4.00 - First-year science core
6.50 - Required science courses semesters 3 - 8
4.50 - Restricted electives (#2,3 and 4 in restricted electives list)**
1.00 - Approved Science electives
1.00 - Approved Arts and/or Social Science electives (#1 in restricted electives list)
3.00 - Free electives - any approved elective for B.Sc. students

Of the total credits required, students are required to complete 16.00 credits in science of which a minimum of 2.00 credits must be at the 4000 level and an additional 4.00 credits must be at the 3000 or 4000 level.

Zoology (ZOO)

Department of Integrative Biology, College of Biological Science

The Major in Zoology offers a broad education in the life sciences while providing a more specialized understanding of the structure, function and ecology of animals. This major qualifies students for postgraduate work in zoology and other life sciences and provides

Major (Honours Program)

Students may enter this major in Semester 1 or any semester thereafter. A student wishing to declare the major must consult the Faculty Advisor. A minimum total of 20.00 credits is required to complete the major. At least 6.00 science credits must be at the 3000 level and an additional 4.00 credits must be at the 3000 or 4000 level.

Semester 1

BIOL*1070 [0.50] Discovering Biodiversity
CHEM*1040 [0.50] General Chemistry I
MATH*1080 [0.50] Elements of Calculus I
PHYS*1070 [0.50] Introductory Physics for Life Sciences

0.50 Arts or Social Science electives *

Students who are lacking one 4U / grade 12 course in Biology, Chemistry or Physics must take the equivalent introductory course in first semester. The required first-year science courses in that subject should be completed according to the revised schedule of studies available at: http://www.bsc.ualberta.ca/revsabs

Semester 2

BIOL*1080 [0.50] Biological Concepts of Health
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1050 [0.50] General Chemistry II
PHYS*1080 [0.50] Physics for Life Sciences

0.50 Arts or Social Science electives

Semester 3

BIOL*2060 [0.50] Ecology
BIOL*2400 [0.50] Evolution
ZOO*2090 [0.50] Vertebrate Structure and Function

1.00 electives or restricted electives *

Semester 4

BIOC*2580 [0.50] Introduction to Biochemistry
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
STAT*2230 [0.50] Biostatistics for Integrative Biology
ZOO*2700 [0.50] Invertebrate Morphology & Evolution

0.50 electives or restricted electives *

Semester 5

ZOO*3000 [0.50] Comparative Histology
ZOO*3200 [0.50] Comparative Animal Physiology I
ZOO*3700 [0.50] Integrative Biology of Vertebrates

1.00 electives or restricted electives

Semester 6

ZOO*3050 [0.50] Developmental Biology
ZOO*3210 [0.50] Comparative Animal Physiology II

1.50 electives or restricted electives

Semester 7

ZOO*4070 [0.50] Animal Behaviour
ZOO*4910 [0.50] Integrative Vertebrate Biology

1.50 electives or restricted electives

Semester 8

2.50 electives or restricted electives

* CIS*1200 is recommended for those needing to improve their computer skills.

Restricted Electives must include:

1. A minimum of 1.00 credits of Arts and/or Social Science electives are required. The list of approved Arts and Social Science electives for B.Sc. students is available at: http://www.bsc.ualberta.ca/Approved_electives.shtml#arts

2. A minimum of 0.50 credits from:

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<tbody>
<tr>
<td>BIOL*3120</td>
<td>0.50</td>
<td>Community Ecology</td>
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3. A minimum of 0.25 credits from:

| ZOO*4920 | 0.25 | Lab Studies in Ornithology |
| ZOO*4930 | 0.25 | Lab Studies in Ichthyology |
| ZOO*4940 | 0.25 | Lab Studies in Herpetology |
| ZOO*4950 | 0.25 | Lab Studies in Mammalogy |

4. A minimum of 0.50 credits from:

| BIOL*4410 | 0.75 | Field Ecology |
| BIOL*4610 | 0.75 | Arctic Ecology |
| BIOL*4700 | 0.50 | Field Biology |
| BIOL*4710 | 0.25 | Field Biology |
| BIOL*4800 | 0.50 | Field Biology |
| BIOL*4810 | 0.25 | Field Biology |
| BIOL*4900 | 0.50 | Field Biology |

Other field or research courses with approval of faculty advisor.

Credit Summary (20.00 Total Credits)

4.00 - First-year science core
7.00 - Required science courses semesters 3 - 8
1.25 - Restricted electives (#2, 3 and 4 in restricted electives list)**
3.75 - Approved Science electives
1.00 - Arts and/or Social Science electives (#1 in restricted electives list)
3.00 - Free electives - any approved elective for B.Sc. students

Of the total credits required, students are required to complete 16.00 credits in science of which a minimum of 2.00 credits must be at the 4000 level and an additional 4.00 credits must be at the 3000 or 4000 level.

Minor (Honours Program)

Students in majors other than Zoology, Biodiversity, Wildlife Biology & Conservation and Marine & Freshwater Biology who have a strong interest in Zoology may choose to take a minor in Zoology.

A minor in Zoology requires a minimum of 5.00 credits, 4.00 of which must be from the following list:

<p>| BIOL<em>2060 | 0.50 | Ecology |
| BIOL</em>2400 | 0.50 | Evolution |
| BIOL<em>3110 | 0.50 | Population Ecology |
| BIOL</em>3120 | 0.50 | Community Ecology |
| ZOO<em>2090 | 0.50 | Vertebrate Structure and Function |
| ZOO</em>2700 | 0.50 | Invertebrate Morphology &amp; Evolution |
| ZOO<em>3000 | 0.50 | Comparative Histology |
| ZOO</em>3050 | 0.50 | Developmental Biology |
| ZOO*3200 | 0.50 | Comparative Animal Physiology I |</p>
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<th>Course Title</th>
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<tr>
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</tr>
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<td>ZOO*3700</td>
<td>[0.50]</td>
<td>Integrative Biology of Invertebrates</td>
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<td>Animal Behaviour</td>
</tr>
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<td>ZOO*4330</td>
<td>[0.50]</td>
<td>Biology of Fishes</td>
</tr>
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<td>ZOO*4910</td>
<td>[0.50]</td>
<td>Integrative Vertebrate Biology</td>
</tr>
<tr>
<td>ZOO*4920</td>
<td>[0.25]</td>
<td>Lab Studies in Ornithology</td>
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<td>Lab Studies in Ichthyology</td>
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<td>ZOO*4940</td>
<td>[0.25]</td>
<td>Lab Studies in Herpetology</td>
</tr>
<tr>
<td>ZOO*4950</td>
<td>[0.25]</td>
<td>Lab Studies in Mammalogy</td>
</tr>
</tbody>
</table>

The remaining 1.00 credits may also come from this list or from outside this list, in consultation with a faculty advisor.
Bachelor of Science in Agriculture [B.Sc.(Agr.)]
The B.Sc.(Agr.) degree program is a 4 year honours science program designed to provide a fundamental education in the science of agriculture. The curriculum includes courses in the agricultural sciences, the physical, biological and social sciences, and in the arts.

Program Information
Agricultural scientists must be effective communicators and problem solvers, self-directed in their learning, and have a global perspective of the agrifood systems. Students will be involved in co-operative group learning activities and will experience courses that are multidisciplinary and integrate the teaching activities of many faculty and departments.

Students will have the option of completing a broad agricultural program (honours agricultural science) or another major in which they take a minimum of 6.00 credits. The curriculum provides opportunities for students to select courses that will help them prepare for professional careers as entrepreneurs, scientists, marketing specialists, financial managers, technical advisors, or communication specialists. Students will have a comprehensive understanding of the food system when they graduate. They will be able to integrate their knowledge of production agriculture, environmental management, resource allocation and business management as it applies to the food system nationally and globally.

Students will be encouraged to integrate their academic program with a well-planned series of employment activities in the summer months and to develop their leadership and interpersonal skills in on-campus and community activities. There is a strong commitment in the curriculum to the philosophy of "whole person development" and students are encouraged to identify personal goals that they wish to accomplish in each of these areas of their development.

Graduates meet the educational requirements for membership in the Ontario Institute of Agrologists. The Ontario Institute of Agrologists is the professional organization in agriculture in the Province of Ontario. Professional institutes in the various provinces in Canada and the scientific societies in agriculture collectively comprise the Agricultural Institute of Canada. The program received full accreditation from the Agricultural Institute of Canada in April 2007.

B.Sc.(Agr.) Majors:
Animal Science
Crop, Horticulture and Turfgrass Science
Honours Agricultural Science
Organic Agriculture

Declaration of a Major
All students are admitted into an undeclared major upon entry. Students will be required to select a major by semester 3 through consultation with the Program Counsellor and Faculty Advisors. The course requirements are listed for each major in the following section.

Students may, with appropriate approvals, elect to complete Minors associated with other degree programs as listed in the undergraduate calendar.

Study Abroad
The B.Sc.(Agr.) degree program is similar in many respects to programs offered at faculties of agricultural science in other provinces in Canada. Students are strongly encouraged to consider studying for 1 or 2 semesters in other faculties of agricultural science in Canada and in selected countries around the world.

Students interested in studying at another institution should consult the B.Sc.(Agr.) Program Counsellor to discuss their plans, and refer to the scholarship section for financial support.

For more specific information on these opportunities refer to Section V--International Study in this calendar, or contact the OAC Dean's Office.

Doctor of Veterinary Medicine
Students in the B.Sc.(Agr.) program normally apply for admission to the D.V.M. program after semester 4 or later. Applications must be submitted to the Admissions Services, Office of Registrarial Services. Students should consult the D.V.M. Section of the calendar.

Students who do not gain admission to the D.V.M. program are eligible to continue in the B.Sc.(Agr.) program through to graduation.

Students planning to enter the D.V.M. program are advised to include 12U biology, 12U chemistry, and 12U physics in addition to calculus in secondary school.

Continuation of Study
Students are advised to consult the regulations for continuation of study within the program which are outlined in detail in Section VIII--Undergraduate Degree Regulations & Procedures.

Conditions of Graduation
To qualify for the degree Bachelor of Science (Agriculture), the student must successfully complete a minimum of 20.00 credits as set out in the Schedule of Studies listed below. In addition, students must meet the continuation of study requirements at the time of graduation and have a minimum of 60% cumulative average.

Honours Agriculture (AGRS)
Departments of Plant Agriculture and Animal and Poultry Science
The Honours Agriculture major combines a core curriculum of agricultural science courses with a wide range of electives focusing on agri-food business, animal and plant production, land stewardship and sustainability. This major allows students to create a curriculum uniquely tailored to their career goals and provides diverse opportunities to explore international agriculture and leading edge agricultural research in animal production, plant biotechnology and pest management. The flexibility provided in semesters 5 and 6 permits students to participate in international exchanges and semesters abroad. Students can also incorporate a variety of field trips, experiential learning in the workplace and independent study into their program of studies. The combination of a solid understanding of life science and current agricultural practice with specialized skills and experience provided by this program is greatly valued by prospective employers in this essential sector of Canada's economy.

Semester 1
AGR*1110 [1.00] Introduction to the Agrifood Systems
BIOL*1050 [0.50] Biology of Plants & Animals in Managed Ecosystems
CHEM*1040 [0.50] General Chemistry I
MATH*1080 [0.50] Elements of Calculus I

Semester 2
AGR*2050 [0.50] Agroecology
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1050 [0.50] General Chemistry II
FARE*1400 [1.00] Economics of the Agri-Food System

Semester 3
AGR*2320 [0.50] Soils in Agroecosystems
AGR*2350 [0.50] Animal Production Systems, Health and Industry
AGR*2470 [0.50] Introduction to Plant Agriculture
FARE*2700 [0.50] Survey of Natural Resource Economics
MBO*2400 [0.50] Fundamentals of Plant and Animal Genetics

Semester 4
ANSC*2340 [0.50] Structure of Farm Animals
ENVS*2340 [0.50] Current Issues in Agriculture and Landscape Mgmt
STAT*2040 [0.50] Statistics I

1.00 electives or restricted electives

Semester 5 to 8
Students must choose either Option A (Production and Management) or B (Research).

Option A - Production and Management

Semester 5
FOOD*3090 [0.50] Food Science and Human Nutrition

2.00 electives or restricted electives

Semester 6
2.50 electives or restricted electives

Semester 7
2.50 electives or restricted electives

Semester 8
AGR*4600 [1.00] Agriculture and Food Issues Problem Solving

1.50 electives or restricted electives

Restricted Electives - Option A
Students should note that some restricted electives require other courses not included among the required courses for the major as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

1. A minimum of 1.00 credits from the list of restricted electives below:

- AGR*2500 [0.50] Field Course in International Agriculture
- AGR*3010 [0.50] Special Studies in Agricultural Science I
- AGR*3450 [0.50] Research Methods in Agricultural Science
- AGR*3500 [0.50] Experiential Education I
- ANSC*4230 [0.50] Challenges and Opportunities in Animal Production
- ANSC*4610 [0.50] Critical Analysis in Animal Science
- CROP*4260 [0.50] Crop Science Field Trip
- EDRD*2020 [0.50] Interpersonal Communication
- EDRD*3050 [0.50] Agricultural Communication I
- EDRD*3140 [0.50] Organizational Communication
- FARE*3310 [0.50] Operations Management
- FARE*4220 [0.50] Advanced Agribusiness Management
- FARE*4310 [0.50] Resource Economics
- FARE*4360 [0.50] Marketing Research
- FARE*4550 [0.50] Independent Studies I

2. A minimum of 2.00 credits from the following lists:

A minimum of 0.50 credits from the following list:
CROP*3300 [0.50] Grain Crops
CROP*3310 [0.50] Protein and Oilseed Crops
CROP*3340 [0.50] Managed Grasslands
ENVS*4090 [0.50] Soil Management
ENVS*4160 [0.50] Soil and Nutrient Management
HORT*2450 [0.50] Introduction to Turfgrass Science
HORT*3150 [0.50] Principles and Applications of Plant Propagation
HORT*4380 [0.50] Tropical and Sub-Tropical Crops
PBI0*3110 [0.50] Crop Physiology
PBI0*3750 [0.50] Plant Tissue Culture
PBI0*4100 [0.50] Soil Plant Relationships

A minimum of 0.50 credits from the following list:

CROP*4240 [0.50] Weed Science
ENVS*2020 [0.50] Agrometeorology
ENVS*2040 [0.50] Plant Health and the Environment
ENVS*3020 [0.50] Pesticides and the Environment
ENVS*3210 [0.50] Plant Pathology
ENVS*3230 [0.50] Agroforestry Systems

A minimum of 0.50 credits from the following list:

ACCT*2220 [0.50] Financial Accounting
ECON*1050 [0.50] Introductory Microeconomics
ECON*1100 [0.50] Introductory Macroeconomics
ECON*2310 [0.50] Intermediate Microeconomics
FARE*2410 [0.50] Agrifood Markets and Policy
FARE*3170 [0.50] Cost-Benefit Analysis

Students may also take any of the following courses as restricted electives:

BI0C*2580 [0.50] Introduction to Biochemistry
BOT*2100 [0.50] Life Strategies of Plants
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
MBG*2360 [0.50] Quantitative Genetics

A minimum of 7.00 credits must be at the 3000 level or higher, of which 5.00 credits must be in agricultural science and of which 3.50 credits must be at the 4000 level.

Refer to Program Counsellor for list of agricultural science courses.

A humanities or social science courses (0.50 credits) at the 1000-level or above. See most recent undergraduate calendar for specific requirements.

**Agriculture (AGR)**

**Minor (Honours Program)**

The requirement of 5.00 credits for the minor is divided into three groups of courses: required courses and two lists of restricted electives. Students must ensure that they obtain the necessary prerequisites for required and restricted elective courses. Students should seek academic counselling from the B.Sc.(Agr) Program Counsellor early in their program. This minor is not open to students in the B.Sc.(Agr) Program.

**Minor**

A minimum of 5.00 credits is required including:

- **AGR*1110 [1.00]** Introduction to the Agrifood Systems

1.50 credits from the following Restricted Elective list:

- **AGR*2050 [0.50]** Agroecology
- **AGR*2320 [0.50]** Soils in Agroecosystems
- **AGR*2350 [0.50]** Animal Production Systems, Health and Industry
- **AGR*2470 [0.50]** Introduction to Plant Agriculture
- **AGR*2500 [0.50]** Field Course in International Agriculture
- **EDRD*3400 [0.50]** Sustainable Communities
- **FARE*1400 [1.00]** Economics of the Agri-Food System
- **FOOD*3090 [0.50]** Food Science and Human Nutrition

2.50 credits from the following Restricted Elective list, without regard to group:

Note: At least 0.50 credits from the following list must be at the 4000 level and 1.00 credits at the 3000 level or higher.

**Agronomy**:

- **CROP*3300 [0.50]** Grain Crops
- **CROP*3310 [0.50]** Protein and Oilseed Crops
- **CROP*3340 [0.50]** Managed Grasslands
- **CROP*4220 [0.50]** Cropping Systems
- **HORT*4380 [0.50]** Tropical and Sub-Tropical Crops
- **PBI0*3110 [0.50]** Crop Physiology

**Animal Science**:

- **ANSC*1210 [1.00]** Principles of Animal Care and Welfare
- **ANSC*2330 [0.50]** Horse Management Science
- **ANSC*2340 [0.50]** Structure of Farm Animals
- **ANSC*3080 [0.50]** Agricultural Animal Physiology
- **MBG*2400 [0.50]** Fundamentals of Plant and Animal Genetics
- **MBG*3060 [0.50]** Quantitative Genetics

**Environmental Biology**:

- **ENVS*2040 [0.50]** Plant Health and the Environment
- **ENVS*3020 [0.50]** Pesticides and the Environment
- **ENVS*3040 [0.50]** Natural Chemicals in the Environment
- **ENVS*3210 [0.50]** Plant Pathology
- **ENVS*4100 [0.50]** Integrated Management of Invasive Insect Pests
- **ENVS*4240 [0.50]** Biological Activity of Pesticides

**Horticultural Science**:

- **HORT*3150 [0.50]** Principles and Applications of Plant Propagation
- **HORT*3280 [0.50]** Greenhouse Production
- **HORT*4300 [0.50]** Postharvest Physiology
- **PBI0*3110 [0.50]** Crop Physiology
- **PBI0*3750 [0.50]** Plant Tissue Culture

**Resource Management**:

- **ENVS*2120 [0.50]** Introduction to Environmental Stewardship
- **ENVS*2020 [0.50]** Agrometeorology
- **ENVS*2030 [0.50]** Meteorology and Climatology
- **ENVS*2340 [0.50]** Current Issues in Agriculture and Landscape Mgmt
- **ENVS*3050 [0.50]** Microclimatology
- **ENVS*3080 [0.50]** Soil and Water Conservation
**X. Degree Programs, Bachelor of Science in Agriculture [B.Sc.(Agr.)]**

**Department of Animal and Poultry Science**

The animal science curriculum is designed to provide a broad opportunity to study animal physiology, nutrition, genetics, behaviour and welfare across a range of large and small domestic animal species. The program is designed around an option to follow a Production and Management focus or a Research focus in semesters 5-8 with additional flexibility to allow for a semester of study abroad.

**Semester 1**

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**Semester 2**

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**Semester 3**

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**Semester 4**

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**Semester 5 to 8**

Students must choose either Option A (Production and Management) or B (Research).

**Option A - Production and Management**

**Semester 5**

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**Semester 8**

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</table>

**Restricted Electives - Option A**

Students should note that some restricted electives require other courses not included among the required courses for the major as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

1. A minimum of 1.00 credits from the list:

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<tr>
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<tbody>
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2. A minimum of 3.00 credits is required from the following lists:

A minimum of 0.50 credits from the following list:

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A minimum of 1.00 credits from the following list:

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3. A minimum of 7.00 credits must be at the 3000 level or higher, of which 5.00 credits must be in agricultural science and of which 3.50 credits must be at the 4000 level. Refer to Program Counsellor for list of agricultural science courses.

A minimum of 3.00 credits is required from the following lists:

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4. A humanities or social science courses (0.50 credits) at the 1000-level or above. See Program Counsellor for acceptable list of courses.

**Option B - Research**

**Semester 5**

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**Semester 6**

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**Semester 7**

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**Semester 8**

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</table>

**Restricted Electives - Option B**

Students should note that some restricted electives require other courses not included among the required courses for the major as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

1. A minimum of 1.00 credits from the following list (normally to be taken during semesters 7 and 8):

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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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2. A minimum of 3.00 credits is required from the following lists:

A minimum of 0.50 credits from the following list:

<table>
<thead>
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<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANSC*4020</td>
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<tr>
<td>ANSC*4050</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*4030</td>
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</tr>
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</table>

A minimum of 1.00 credits from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANSC*3170</td>
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</tr>
<tr>
<td>ANSC*3180</td>
<td>0.50</td>
</tr>
<tr>
<td>ANSC*4260</td>
<td>0.50</td>
</tr>
<tr>
<td>ANSC*4270</td>
<td>0.50</td>
</tr>
<tr>
<td>ANSC*4280</td>
<td>0.50</td>
</tr>
<tr>
<td>ANSC*4290</td>
<td>0.50</td>
</tr>
<tr>
<td>ANSC*4470</td>
<td>0.50</td>
</tr>
<tr>
<td>ANSC*4560</td>
<td>0.50</td>
</tr>
<tr>
<td>EQN*4020</td>
<td>0.50</td>
</tr>
</tbody>
</table>

A minimum of 1.00 credits from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC*3210</td>
<td>0.50</td>
</tr>
<tr>
<td>ANSC*4090</td>
<td>0.50</td>
</tr>
<tr>
<td>ANSC*4100</td>
<td>0.50</td>
</tr>
</tbody>
</table>
Crop, Horticulture and Turfgrass Sciences (CHAT)

Department of Plant Agriculture

The Crop, Horticultural and Turfgrass Sciences major is for students who want to apply the latest advancements in the biological sciences to contemporary problems in the plant production industries. This major is appropriate for students with a focus on the production of field crops for food, fuel or biomaterials, management of today’s advanced commercial greenhouses, horticultural production, breeding improved crop varieties, or using turfgrass and other plant species to enhance urban environments. The flexibility provided in semester 6 permits students to participate in international exchanges and semesters abroad. Students can also incorporate a variety of field trips, experiential learning in the workplace and independent study into their program of studies.

Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*1110</td>
<td>1.00</td>
<td>Introduction to the Agrifood Systems</td>
</tr>
<tr>
<td>BIOL*1050</td>
<td>0.50</td>
<td>Biology of Plants &amp; Animals in Managed Ecosystems</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
<td>Elements of Calculus I</td>
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</table>

Semester 2

<table>
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<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>AGR*2050</td>
<td>0.50</td>
<td>Agroecology</td>
</tr>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>FARE*1400</td>
<td>1.00</td>
<td>Economics of the Agri-Food System</td>
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Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Title</th>
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<tbody>
<tr>
<td>AGR*2300</td>
<td>0.50</td>
<td>Soils in Agroecosystems</td>
</tr>
<tr>
<td>AGR*2350</td>
<td>0.50</td>
<td>Animal Production Systems, Health and Industry</td>
</tr>
<tr>
<td>AGR*2470</td>
<td>0.50</td>
<td>Introduction to Plant Agriculture</td>
</tr>
<tr>
<td>FARE*2700</td>
<td>0.50</td>
<td>Survey of Natural Resource Economics</td>
</tr>
<tr>
<td>MBG*2400</td>
<td>0.50</td>
<td>Fundamentals of Plant and Animal Genetics</td>
</tr>
</tbody>
</table>

Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BIOC*2580</td>
<td>0.50</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>BOT*2100</td>
<td>0.50</td>
<td>Life Strategies of Plants</td>
</tr>
<tr>
<td>ENVS*2040</td>
<td>0.50</td>
<td>Plant Health and the Environment</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
</tbody>
</table>

Note: Students who wish to add business courses to their program are advised to take ACCT*2220 in semester 4 and ACCT*2230 in semester 5.

Semester 5 to 8

Students must choose either Option A (Production and Management) or B (Research).

Option A - Production and Management

Semester 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOOD*3090</td>
<td>0.50</td>
<td>Food Science and Human Nutrition</td>
</tr>
<tr>
<td>PBIO*3110</td>
<td>0.50</td>
<td>Crop Physiology</td>
</tr>
</tbody>
</table>

1.50 electives or restricted electives

Semester 6

2.50 electives or restricted electives

Semester 7

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4090</td>
<td>0.50</td>
<td>Soil Management</td>
</tr>
<tr>
<td>ENVS*4160</td>
<td>0.50</td>
<td>Soil and Nutrient Management</td>
</tr>
<tr>
<td>PBIO*4100</td>
<td>0.50</td>
<td>Soil Plant Relationships (in semester 8)</td>
</tr>
</tbody>
</table>

2.00 or 2.50 electives or restricted electives

Semester 8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*4600</td>
<td>1.00</td>
<td>Agriculture and Food Issues Problem Solving</td>
</tr>
<tr>
<td>PBIO*4100</td>
<td>0.50</td>
<td>Soil Plant Relationships (if 1 of ENVS<em>4090 or ENVS</em>4160 is not taken in Semester 7)</td>
</tr>
</tbody>
</table>

1.00 or 1.50 electives or restricted electives

Restricted Electives - Option A

Students should note that some restricted electives require other courses not included among the required courses for the major as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

1. A minimum of 1.00 credits from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*3010</td>
<td>0.50</td>
<td>Special Studies in Agricultural Science I</td>
</tr>
<tr>
<td>AGR*3450</td>
<td>0.50</td>
<td>Research Methods in Agricultural Science</td>
</tr>
</tbody>
</table>

2. Students must select a minimum of 3.00 credits from the below, without regard to group. Courses are organized into three subject areas only to provide guidance to students who wish to concentrate in a particular area of plant agriculture.

Crop Science:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*2500</td>
<td>0.50</td>
<td>Field Course in International Agriculture</td>
</tr>
<tr>
<td>CROP*3300</td>
<td>0.50</td>
<td>Grain Crops</td>
</tr>
<tr>
<td>CROP*3310</td>
<td>0.50</td>
<td>Protein and Oilseed Crops</td>
</tr>
<tr>
<td>CROP*3340</td>
<td>0.50</td>
<td>Managed Grasslands</td>
</tr>
<tr>
<td>CROP*4220</td>
<td>0.50</td>
<td>Cropping Systems</td>
</tr>
<tr>
<td>CROP*4240</td>
<td>0.50</td>
<td>Weed Science</td>
</tr>
<tr>
<td>ENVB*4070</td>
<td>0.50</td>
<td>Biological and Cultural Control of Plant Diseases</td>
</tr>
<tr>
<td>ENVS*2020</td>
<td>0.50</td>
<td>Agrometeorology</td>
</tr>
<tr>
<td>ENVS*2340</td>
<td>0.50</td>
<td>Current Issues in Agriculture and Landscape Management</td>
</tr>
<tr>
<td>ENVS*3080</td>
<td>0.50</td>
<td>Soil and Water Conservation</td>
</tr>
<tr>
<td>ENVS*3210</td>
<td>0.50</td>
<td>Plant Pathology</td>
</tr>
<tr>
<td>ENVS*4100</td>
<td>0.50</td>
<td>Integrated Management of Invasive Insect Pests</td>
</tr>
<tr>
<td>HORT*4380</td>
<td>0.50</td>
<td>Tropical and Sub-Tropical Crops</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>MBG*3100</td>
<td>0.50</td>
<td>Plant Genetics</td>
</tr>
<tr>
<td>MBG*4160</td>
<td>0.50</td>
<td>Plant Breeding</td>
</tr>
<tr>
<td>OAGR*2070</td>
<td>1.00</td>
<td>Introduction to Organic Agriculture</td>
</tr>
<tr>
<td>OAGR*4050</td>
<td>1.00</td>
<td>Design of Organic Production Systems</td>
</tr>
<tr>
<td>PBIO*3750</td>
<td>0.50</td>
<td>Plant Tissue Culture</td>
</tr>
<tr>
<td>PBIO*4100</td>
<td>0.50</td>
<td>Soil Plant Relationships</td>
</tr>
<tr>
<td>PBIO*4750</td>
<td>0.50</td>
<td>Genetic Engineering of Plants</td>
</tr>
</tbody>
</table>

Horticultural Science:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CROP*4240</td>
<td>0.50</td>
<td>Weed Science</td>
</tr>
<tr>
<td>ENVB*4070</td>
<td>0.50</td>
<td>Biological and Cultural Control of Plant Diseases</td>
</tr>
<tr>
<td>ENVS*3210</td>
<td>0.50</td>
<td>Plant Pathology</td>
</tr>
<tr>
<td>ENVS*4100</td>
<td>0.50</td>
<td>Integrated Management of Invasive Insect Pests</td>
</tr>
<tr>
<td>HORT*2450</td>
<td>0.50</td>
<td>Introduction to Turfgrass Science</td>
</tr>
<tr>
<td>HORT*3010</td>
<td>0.50</td>
<td>Annual, Perennial and Indoor Plants - Identification and Use</td>
</tr>
<tr>
<td>HORT*3150</td>
<td>0.50</td>
<td>Principles and Applications of Plant Propagation</td>
</tr>
<tr>
<td>HORT*3270</td>
<td>0.50</td>
<td>Medicinal Plants</td>
</tr>
<tr>
<td>HORT*3280</td>
<td>0.50</td>
<td>Greenhouse Production</td>
</tr>
<tr>
<td>HORT*3510</td>
<td>0.50</td>
<td>Vegetable Production</td>
</tr>
<tr>
<td>HORT*4300</td>
<td>0.50</td>
<td>Postharvest Physiology</td>
</tr>
<tr>
<td>HORT*4420</td>
<td>0.50</td>
<td>Fruit Crops</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>MBG*3100</td>
<td>0.50</td>
<td>Plant Genetics</td>
</tr>
<tr>
<td>MBG*4160</td>
<td>0.50</td>
<td>Plant Breeding</td>
</tr>
<tr>
<td>PBIO*3750</td>
<td>0.50</td>
<td>Plant Tissue Culture</td>
</tr>
<tr>
<td>PBIO*4100</td>
<td>0.50</td>
<td>Soil Plant Relationships</td>
</tr>
<tr>
<td>PBIO*4750</td>
<td>0.50</td>
<td>Genetic Engineering of Plants</td>
</tr>
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</table>

Turfgrass Science:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CROP*4240</td>
<td>0.50</td>
<td>Weed Science</td>
</tr>
<tr>
<td>ENVS*3020</td>
<td>0.50</td>
<td>Pesticides and the Environment</td>
</tr>
<tr>
<td>ENVS*3140</td>
<td>0.50</td>
<td>Management of Turfgrass Diseases</td>
</tr>
<tr>
<td>HORT*2450</td>
<td>0.50</td>
<td>Introduction to Turfgrass Science</td>
</tr>
<tr>
<td>HORT*3050</td>
<td>0.50</td>
<td>Management of Turfgrass Insect Pests and Weeds</td>
</tr>
<tr>
<td>HORT*4200</td>
<td>0.50</td>
<td>Turf, the Environment and Society</td>
</tr>
<tr>
<td>HORT*4450</td>
<td>0.50</td>
<td>Advanced Turfgrass Science</td>
</tr>
</tbody>
</table>

3. A minimum of 7.00 credits must be at the 3000 level or higher, of which 5.00 credits must be in agricultural science and of which 3.50 credits must be at the 4000 level. Refer to Program Counsellor for list of agricultural electives.

4. A humanities or social science courses (0.50 credits) at the 1000-level or above from the College of Arts or College of Social and Applied Human Sciences. See Program Counsellor for acceptable list of courses.

Option B - Research

Semester 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>AGR*3450</td>
<td>0.50</td>
<td>Research Methods in Agricultural Science</td>
</tr>
<tr>
<td>FOOD*3090</td>
<td>0.50</td>
<td>Food Science and Human Nutrition</td>
</tr>
<tr>
<td>PBIO*3110</td>
<td>0.50</td>
<td>Crop Physiology</td>
</tr>
</tbody>
</table>

1.00 electives or restricted electives
Students should note that some restricted electives require other courses not included among the required courses for the major as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

1. During semesters 4-8 students must select a minimum of 3.00 credits from the lists of restricted electives below, without regard to group. Courses are organized into three subject areas only to provide guidance to students who wish to concentrate in a particular area of plant agriculture.

CROP*2500 [0.50] Field Course in International Agriculture
CROP*3300 [0.50] Grain Crops
CROP*3310 [0.50] Protein and Oilseed Crops
CROP*3340 [0.50] Managed Grasslands
CROP*4220 [0.50] Cropping Systems
CROP*4240 [0.50] Weed Science
ENVS*4070 [0.50] Biological and Cultural Control of Plant Diseases
ENVS*2020 [0.50] Agronometeorology
ENVS*2430 [0.50] Current Issues in Agriculture and Landscape Mgmt
ENVS*3080 [0.50] Soil and Water Conservation
ENVS*3210 [0.50] Plant Pathology
ENVS*4100 [0.50] Integrated Management of Invasive Insect Pests
HORT*4380 [0.50] Tropical and Sub-Tropical Crops
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
MBG*3100 [0.50] Plant Genetics
MBG*4160 [0.50] Plant Breeding
OAGR*2070 [1.00] Introduction to Organic Agriculture
OAGR*4050 [1.00] Design of Organic Production Systems
PBIO*3750 [0.50] Plant Tissue Culture
PBIO*4100 [0.50] Soil Plant Relationships
PBIO*4750 [0.50] Genetic Engineering of Plants

Semester 2

AGR*2320 [0.50] Soils in Agroecosystems
AGR*2350 [0.50] Animal Production Systems, Health and Industry
AGR*2470 [0.50] Introduction to Plant Agriculture
FARE*2700 [0.50] Survey of Natural Resource Economics
MBG*2400 [0.50] Fundamentals of Plant and Animal Genetics

Semester 3

ENVS*2040 [0.50] Plant Health and the Environment
OAGR*2070 [1.00] Introduction to Organic Agriculture
STAT*2040 [0.50] Statistics I

Semester 4

Students must choose either Option A (Production and Management) or B (Research).

Option A - Production and Management

Semester 5

FOOD*3090 [0.50] Food Science and Human Nutrition

Semester 6

2.50 electives or restricted electives

Semester 7

OAGR*4050 [1.00] Design of Organic Production Systems

Semester 8

AGR*4600 [1.00] Agriculture and Food Issues Problem Solving

Restricted Electives - Option A

Students should note that some restricted electives require other courses not included among the required courses for the major as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

1. A minimum of 1.00 credits from the list:

AGR*2500 [0.50] Field Course in International Agriculture
AGR*3010 [0.50] Special Studies in Agricultural Science
### Restricted Electives - Option B

Students should note that some restricted electives require other courses not included among the required courses for the major as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

1. Students in Option B must select a minimum of 3.50 credits from the following lists:

   Minimum of 2.50 credits from the following list:
   - ANSC*2340 [0.50] Structure of Farm Animals
   - ANSC*3120 [0.50] Introduction to Animal Nutrition
   - ANSC*3210 [0.50] Principles of Animal Care and Welfare
   - CROP*3300 [0.50] Grain Crops
   - CROP*3310 [0.50] Protein and Oilseed Crops
   - CROP*3340 [0.50] Managed Grasslands
   - CROP*4220 [0.50] Cropping Systems
   - CROP*4240 [0.50] Weed Science
   - ENVS*2340 [0.50] Current Issues in Agriculture and Landscape Mgmt
   - ENVS*3080 [0.50] Soil and Water Conservation
   - ENVS*3210 [0.50] Plant Pathology
   - ENVS*4090 [0.50] Soil Management
   - ENVS*4100 [0.50] Integrated Management of Invasive Insect Pests
   - ENVS*4160 [0.50] Soil and Nutrient Management
   - HORT*3510 [0.50] Vegetable Production
   - HORT*4420 [0.50] Fruit Crops
   - PBIO*3110 [0.50] Crop Physiology
   - PBIO*4100 [0.50] Soil Plant Relationships

   A minimum of 0.50 credits from the following list:
   - EDRD*3400 [0.50] Sustainable Communities
   - GEOG*3320 [0.50] Food Systems: Issues in Security and Sustainability
   - PHIL*2070 [0.50] Philosophy of the Environment

   Students may also take the following courses as restricted electives:
   - ACCT*2220 [0.50] Financial Accounting
   - BIOC*2580 [0.50] Introduction to Biochemistry
   - BOT*2100 [0.50] Life Strategies of Plants
   - ECON*1050 [0.50] Introductory Microeconomics
   - ECON*1100 [0.50] Introductory Macroeconomics
   - ECON*2310 [0.50] Intermediate Microeconomics
   - FARE*2410 [0.50] Agrifood Markets and Policy
   - MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
   - MBG*3060 [0.50] Quantitative Genetics
   - NUTR*3210 [0.50] Fundamentals of Nutrition

2. A minimum of 7.00 credits must be at the 3000 level or higher, of which 5.00 credits must be in agricultural science and of which 3.50 credits must be at the 4000 level. Refer to Program Counsellor for list of agricultural science courses.

3. A humanities or social science courses (0.50 credits) at the 1000-level or above from the College of Arts or College of Social and Applied Human Sciences. See Program Counsellor for acceptable list of courses.

### Option B - Research

#### Semester 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*3450</td>
<td>0.50</td>
<td>Research Methods in Agricultural Science</td>
</tr>
<tr>
<td>AGR*3500</td>
<td>0.50</td>
<td>Experiential Education I</td>
</tr>
<tr>
<td>ANSC*4230</td>
<td>0.50</td>
<td>Challenges and Opportunities in Animal Production</td>
</tr>
<tr>
<td>ANSC*4610</td>
<td>0.50</td>
<td>Critical Analysis in Animal Science</td>
</tr>
<tr>
<td>CROP*4260</td>
<td>0.50</td>
<td>Crop Science Field Trip</td>
</tr>
<tr>
<td>EDRD*2020</td>
<td>0.50</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>EDRD*3050</td>
<td>0.50</td>
<td>Agricultural Communication I</td>
</tr>
<tr>
<td>EDRD*3140</td>
<td>0.50</td>
<td>Organizational Communication</td>
</tr>
<tr>
<td>FARE*3310</td>
<td>0.50</td>
<td>Operations Management</td>
</tr>
<tr>
<td>FARE*4220</td>
<td>0.50</td>
<td>Advanced Agribusiness Management</td>
</tr>
<tr>
<td>FARE*4310</td>
<td>0.50</td>
<td>Resource Economics</td>
</tr>
<tr>
<td>FARE*4360</td>
<td>0.50</td>
<td>Marketing Research</td>
</tr>
<tr>
<td>FARE*4550</td>
<td>0.50</td>
<td>Independent Studies I</td>
</tr>
</tbody>
</table>

2. Students must select a minimum of 3.50 credits from the following lists:

   Minimum of 2.50 credits from the following list:
   - ANSC*2340 [0.50] Structure of Farm Animals
   - ANSC*3120 [0.50] Introduction to Animal Nutrition
   - ANSC*3210 [0.50] Principles of Animal Care and Welfare
   - CROP*3300 [0.50] Grain Crops
   - CROP*3310 [0.50] Protein and Oilseed Crops
   - CROP*3340 [0.50] Managed Grasslands
   - CROP*4220 [0.50] Cropping Systems
   - CROP*4240 [0.50] Weed Science
   - ENVS*2340 [0.50] Current Issues in Agriculture and Landscape Mgmt
   - ENVS*3080 [0.50] Soil and Water Conservation
   - ENVS*3210 [0.50] Plant Pathology
   - ENVS*4090 [0.50] Soil Management
   - ENVS*4100 [0.50] Integrated Management of Invasive Insect Pests
   - ENVS*4160 [0.50] Soil and Nutrient Management
   - HORT*3510 [0.50] Vegetable Production
   - HORT*4420 [0.50] Fruit Crops
   - PBIO*3110 [0.50] Crop Physiology
   - PBIO*4100 [0.50] Soil Plant Relationships

   A minimum of 0.50 credits from the following list:
   - EDRD*3400 [0.50] Sustainable Communities
   - GEOG*3320 [0.50] Food Systems: Issues in Security and Sustainability
   - PHIL*2070 [0.50] Philosophy of the Environment

   Students may also take the following courses as restricted electives:
   - ACCT*2220 [0.50] Financial Accounting
   - BIOC*2580 [0.50] Introduction to Biochemistry
   - BOT*2100 [0.50] Life Strategies of Plants
   - ECON*1050 [0.50] Introductory Microeconomics
   - ECON*1100 [0.50] Introductory Macroeconomics
   - ECON*2310 [0.50] Intermediate Microeconomics
   - FARE*2410 [0.50] Agrifood Markets and Policy
   - MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
   - MBG*3060 [0.50] Quantitative Genetics
   - NUTR*3210 [0.50] Fundamentals of Nutrition

3. A minimum of 7.00 credits must be at the 3000 level or higher, of which 5.00 credits must be in agricultural science and of which 3.50 credits must be at the 4000 level. Refer to Program Counsellor for list of agricultural science courses.

4. A humanities or social science courses (0.50 credits) at the 1000-level or above from the College of Arts or College of Social and Applied Human Sciences. See Program Counsellor for acceptable list of courses.

#### Semester 6

2.50 electives or restricted electives

#### Semester 7

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Course Title</th>
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<tbody>
<tr>
<td>AGR*4450</td>
<td>1.00</td>
<td>Research Project I</td>
</tr>
<tr>
<td>OAGR*4050</td>
<td>1.00</td>
<td>Design of Organic Production Systems</td>
</tr>
</tbody>
</table>

0.50 electives or restricted electives

#### Semester 8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>AGR*4460</td>
<td>1.00</td>
<td>Research Project II</td>
</tr>
</tbody>
</table>

1.50 electives or restricted electives
Bachelor of Science in Environmental Sciences
[B.Sc.(Env.)]

Program Information

Objectives of the Program

The Environmental Sciences program is designed to provide a strong interdisciplinary grounding in specific environmental sciences including the socioeconomic context in which environmental issues are resolved.

There is an emphasis on management and decision-making skills for the application of scientific knowledge to environmental problems, and the evaluation of appropriate environmental policies. A practical perspective based on defining and resolving problems is central to the program, and this is often done in the context of group work.

Substantial emphasis is placed on communication skills, including the development of competence in both written and oral presentations. These skills will be progressively developed in core courses from the first to the fourth year. Students in the final year of their program will be expected to take part in more intensive communication skill development.

Graduates will seek employment in a range of fields, from government agencies to private industry and research.

Academic Counselling

General information on the degree program is available from the Program Counsellor. Advising for each major is available through the assigned faculty advisor responsible for the major. Students are encouraged to seek the advice of the faculty advisors when choosing restricted electives and planning course selections.

Degree

The degree granted for the successful completion of this honors program will be the Bachelor of Science in Environmental Sciences--B.Sc.(Env.).

Continuation of Study

Students are advised to consult the regulations for Continuation of Study in Section VIII--Undergraduate Degree Regulations and Procedures of this Calendar.

Conditions for Graduation

In order to graduate from the B.Sc.(Env.) program, students must successfully complete a minimum of 20.00 credits including all the stated course requirements for the program. As well, students must achieve a cumulative average of 60% or higher over all course attempts.

Environmental Sciences (Co-op)

A 5-year Honours Program in Environmental Sciences is offered as a Co-operative Education Program. This option is offered within the B.Sc. (Env.) degree and is available to all majors. The course requirements are the same as those listed for the regular B.Sc. (Env.) program, by the Co-operative Education Program and as outlined in the Continuation of Study policy (Section VIII--Undergraduate Degree Regulations & Procedures). 3 co-op work terms (COOP*1000, COOP*2000, COOP*3000) are required. An optional 4th co-op work term (COOP*4000) is available. COOP*1100 must be completed during semester 2.

Environmental Sciences Co-op Work Term Schedule

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Winter</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Academic Term 1</td>
<td>Academic Term 2</td>
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</tr>
<tr>
<td>2</td>
<td>Academic Term 3</td>
<td>COOP*1000</td>
<td>Academic Term 4</td>
</tr>
<tr>
<td>3</td>
<td>COOP*2000</td>
<td>Academic Term 5</td>
<td>COOP*3000</td>
</tr>
<tr>
<td>4</td>
<td>Academic Term 6</td>
<td>Academic Term 7</td>
<td>COOP*4000</td>
</tr>
<tr>
<td>5</td>
<td>Academic Term 8</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Since some of the course requirements in the degree program (core or major) are not offered each semester, careful planning and program consultation with the Faculty Co-op Advisor is essential. In particular, students are encouraged to seek advice when choosing for their Summer academic semester.

The Environmental Sciences Program

The degree in Environmental Sciences consists of a minimum of 20.00 credits, as follows:

1. 5.00 First Year Curriculum
2. 2.00 Environmental Sciences Core
3. 8.00 - 11.00 Environmental Sciences prescribed and restricted electives according to major.
4. free electives*

Within these courses, students must include at least 6.00 credits at the 3000 or 4000 level, and no program may include more than 7.00 credits at the 1000 level.

*There are not specific subject requirements for the elective courses, however, you may NOT select the following: BIOL*1500, BOT*1200, CHEM*1100, CIS*1000, ENVS*1060, GEOL*1100, MICR*1020, MBG*1000, PHYS*1600.

Please note that not all courses in the "One of:" options are available each semester (F, W, S). Students are encouraged to seek advice from the appropriate advisor when selecting and scheduling courses.

First Year Curriculum

The first year courses have been selected to provide students with sufficient background and knowledge to enter any one of the Environmental Sciences majors.

Semester 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1070</td>
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</tr>
<tr>
<td>CHEM*1040</td>
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</tr>
<tr>
<td>ENVS*1030</td>
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</tr>
<tr>
<td>MATH*1080</td>
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Semester 2

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BIOL*1090</td>
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<tr>
<td>CHEM*1050</td>
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<tr>
<td>FARE*1040</td>
<td>1.00</td>
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<tr>
<td>GEOG*1300</td>
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</tbody>
</table>

Note: Co-op students must select COOP*1100 Introduction to Co-operative Education

Environmental Sciences Core

In addition to the common first year curriculum, students are required to take the following core Environmental Sciences courses in the semesters recommended in the schedule of studies:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4001</td>
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<tr>
<td>ENVS*4002</td>
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One of:

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ECON*2100</td>
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<tr>
<td>FARE*2700</td>
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</tr>
<tr>
<td>GEOG*3210</td>
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</table>

A required statistics course is prescribed by the student's choice of major.

Environmental Sciences Majors

Ecology

Environmental and Resource Management

Environmental Economics and Policy

Environmental Sciences

Requirements for each of these majors are described in the detailed schedules of studies below.

Ecology (ECOL)

Department of Integrative Biology, College of Biological Science

This program provides a solid foundation in the principles of ecology, training in both pure and applied aspects of ecology and an introduction to economic, legal and policy issues related to the management of the environment. From the 2nd year on, students increasingly augment the core in ecology and policy with extensive restricted electives choices that allow the student to tailor the program to their interests. The major provides a sound science background for careers in conservation, resource management, ecological consulting, or nature interpretation used in teaching, government, non-government or the private sector; or for further post-graduate training in fundamental ecology, environmental biology and environmental management or policy.

Major

Semester 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL*1070</td>
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<tr>
<td>CHEM*1040</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*1030</td>
<td>1.00</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
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</table>

Semester 2

<table>
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<tr>
<th>Course</th>
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<tr>
<td>BIOL*1090</td>
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<tr>
<td>CHEM*1050</td>
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<td>FARE*1040</td>
<td>1.00</td>
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<tr>
<td>GEOG*1300</td>
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Semester 3

<table>
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<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL*2060</td>
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</tr>
<tr>
<td>PHYS*1080</td>
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<tr>
<td>STAT*2040</td>
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One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON*2100</td>
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</tr>
<tr>
<td>FARE*2700</td>
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</tbody>
</table>

Note: PHYS*1130 may be substituted for ECON*2100 or FARE*2700 and would be taken in a Winter semester.

Semester 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOC*2580</td>
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</tbody>
</table>

Introduction to Biochemistry
Students are required to take 5.00 restricted credits in Ecology as noted below. Of these, at least 1.00 credits must be at the 4000 level.

1. A minimum of 0.50 credits from:
   - Biol*4150 [0.50] Wildlife Conservation and Management
   - Cis*7500 [0.50] Introduction to Programming
   - GEG*2480 [0.50] Mapping and GIS
   - GEG*3420 [0.50] Remote Sensing of the Environment
   - GEG*3480 [0.50] GIS and Spatial Analysis
   - GEG*4480 [1.00] Applied Geographic Information Systems
   * Additional prerequisites are required.

2. Students in the Ecology Major are required to take an additional 4.50 restricted elective credits from the following lists. Some courses may require other courses from the list as prerequisites.

   Ecology
   - ANSC*3180 [0.50] Wildlife Nutrition
   - BIOL*3450 [0.50] Introduction to Aquatic Environments
   - BOT*3050 [0.50] Plant Functional Ecology
   - ENVS*2030 [0.50] Meteorology and Climatology
   - ENVS*2150 [0.50] Terrestrial Systems
   - ENVS*3010 [0.50] Climate Change Biology
   - ENVS*3270 [0.50] Forest Biodiversity
   - ENVS*3290 [0.50] Waterborne Disease Ecology
   - ENVS*4350 [0.50] Forest Ecology
   - GEOG*2000 [0.50] Geomorphology
   - GEOG*2110 [0.50] Climate and the Biophysical Environment
   - GEOG*3000 [0.50] Fluvial Processes
   - GEOG*3610 [0.50] Environmental Hydrology
   - NUTR*3210 [0.50] Fundamentals of Nutrition
   - ZOO*4570 [0.50] Marine Ecological Processes

   Conservation
   - BIOL*4120 [0.50] Evolutionary Ecology
   - BIOL*4150 [0.50] Wildlife Conservation and Management
   - BIOL*4350 [0.50] Biology of Polluted Waters
   - ENVS*2040 [0.50] Plant Health and the Environment
   - ENVS*2330 [0.50] Current Issues in Ecosystem Science and Biodiversity
   - ENVS*3000 [0.50] Nature Interpretation
   - ENVS*3010 [0.50] Climate Change Biology
   - GEG*2480 [0.50] Mapping and GIS
   - GEG*3020 [0.50] Global Environmental Change
   - GEG*3110 [0.50] Biotic and Natural Resources
   - GEG*3210 [0.50] Management of the Biophysical Environment
   - GEG*3480 [0.50] GIS and Spatial Analysis

   Restricted Electives
   - Biol*4150 [0.50] Wildlife Conservation and Management
   - Cis*7500 [0.50] Introduction to Programming
   - GEG*2480 [0.50] Mapping and GIS
   - GEG*3420 [0.50] Remote Sensing of the Environment
   - GEG*3480 [0.50] GIS and Spatial Analysis
   - GEG*4480 [1.00] Applied Geographic Information Systems
   - STAT*2040 [0.50] Statistics I
   
   Some courses may require other courses from the list as prerequisites.

   Note: ZOO*2700 may be substituted for BOT*3410 or ZOO*2090 and would be taken in semester 6.

   Semester 6
   - BIOL*3120 [0.50] Community Ecology
   - BIOL*3130 [0.50] Conservation Biology
   
   Semester 7
   - ENVS*4001 [0.50] Project in Environmental Sciences
   
   Semester 8
   - ENVS*4002 [0.50] Project in Environmental Sciences

Credit Summary (20.00 Total Credits)

7.00 credits - Environmental Sciences core
6.00 credits - Ecology Required courses
5.00 credits - Ecology Restricted electives
2.00 credits - Free electives

Students are reminded that 6.00 credits of their B.Sc. (Env.) degree must be at the 3000-4000 level.

Students are encouraged to seek advice on their choices from their faculty advisor. With prior approval, students may be able to use courses not on these lists towards their Ecology restricted electives.

Ecology (ECOL:C)

Department of Integrative Biology, College of Biological Science

This program provides a solid foundation in the principles of ecology, training in both pure and applied aspects of ecology and an introduction to economic, legal and policy issues related to the management of the environment. From the 2nd year on, students increasingly augment the core in ecology and policy with extensive restricted electives choices that allow the student to tailor the program to their interests. The major provides a sound science background for careers in conservation, resource management, ecological consulting, or nature interpretation used in teaching, government, non-government or the private sector; or for further post-graduate training in fundamental ecology, environmental biology and environmental management or policy.

Major

Semester 1 - Fall
   - BIOL*1070 [0.50] Discovering Biodiversity
   - CHEM*1040 [0.50] General Chemistry I
   - ENVS*1030 [1.00] Introduction to Environmental Sciences
   - MATH*1080 [0.50] Elements of Calculus I

Semester 2 - Winter
   - BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
   - CHEM*1050 [0.50] General Chemistry II
   - COOP*1100 [0.00] Introduction to Co-operative Education
   - FARE*1040 [1.00] Intro to Environmental Economics, Law & Policy
   - GEOG*1300 [0.50] Introduction to the Biophysical Environment

Semester 3 - Fall
   - BIOL*2060 [0.50] Ecology
   - PHYS*1080 [0.50] Physics for Life Sciences
   - STAT*2040 [0.50] Statistics I
   - One of:
     - ECON*2100 [0.50] Economic Growth and Environmental Quality
     - FARE*2700 [0.50] Survey of Natural Resource Economics
     - 0.50 electives or restricted electives

Note: physic*1130 may be substituted for PHYS*1080 and would be taken in a Winter semester.

Note: GEOG*3210 may be substituted for ECON*2100 or FARE*2700 and would be taken in semester 5.

Winter Semester
   - COOP*1000 [0.00] Co-op Work Term I
Semester 4 - Summer

BIOC*2580 [0.50] Introduction to Biochemistry
STAT*2050 [0.50] Statistics II
1.50 electives or restricted electives

Fall Semester

COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter

BIOL*2400 [0.50] Evolution
BIOL*3110 [0.50] Population Ecology
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
1.00 electives or restricted electives

Summer Semester

COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall

BIOL*3010 [0.50] Laboratory and Field Work in Ecology
ENVS*4001 [0.50] Project in Environmental Sciences
One of:
    BOT*2100 [0.50] Life Strategies of Plants
    ZOO*3200 [0.50] Comparative Animal Physiology I
One of:
    BOT*3410 [0.50] Plant Anatomy
    ZOO*2090 [0.50] Vertebrate Structure and Function

Semester 7 - Winter

BIOL*3120 [0.50] Community Ecology
BIOL*3130 [0.50] Conservation Biology
ENVS*4002 [0.50] Project in Environmental Sciences
1.00 electives or restricted electives

Note: See note in semester 6.

Summer Semester (Optional)

COOP*4000 [0.00] Co-op Work Term IV

Semester 8 - Fall

2.50 electives or restricted electives

Restricted Electives

Students are required to take 5.00 restricted credits in Ecology as noted below. Of these, at least 1.00 credits must be at the 4000 level.

1. A minimum of 0.50 credits from:
   - BIOL*4150 [0.50] Wildlife Conservation and Management
   - CIS*1500 [0.50] Introduction to Programming
   - GEOG*2420 [0.50] The Earth From Space
   - GEOG*2480 [0.50] Mapping and GIS
   - GEOG*3420 [0.50] Remote Sensing of the Environment
   - GEOG*3480 [0.50] GIS and Spatial Analysis
   - GEOG*4480 [1.00] Applied Geographic Information Systems

   * Additional prerequisites are required.

2. Students in the Ecology Major are required to take an additional 4.50 restricted elective credits from the following lists. Some courses may require other courses from the list as prerequisites.

   - ANSC*3180 [0.50] Wildlife Nutrition
   - BIOC*3450 [0.50] Introduction to Aquatic Environments
   - BOT*3050 [0.50] Plant Functional Ecology
   - ENVS*2030 [0.50] Meteorology and Climatology
   - ENVS*2150 [0.50] Terrestrial Systems
   - ENVS*3010 [0.50] Climate Change Biology
   - ENVS*3270 [0.50] Forest Biodiversity
   - ENVS*3290 [0.50] Waterborne Disease Ecology
   - ENVS*4350 [0.50] Forest Ecology
   - GEOG*2000 [0.50] Geomorphology
   - GEOG*2110 [0.50] Climate and the Biophysical Environment
   - GEOG*3000 [0.50] Fluvial Processes
   - GEOG*3610 [0.50] Environmental Hydrology
   - NUTR*3210 [0.50] Fundamentals of Nutrition
   - ZOO*4570 [0.50] Marine Ecological Processes
   - BIOL*4120 [0.50] Evolutionary Ecology
   - BIOL*4150 [0.50] Wildlife Conservation and Management
   - BIOL*4350 [0.50] Biology of Polluted Waters

   - ENVS*2040 [0.50] Plant Health and the Environment
   - ENVS*2330 [0.50] Current Issues in Ecosystem Science and Biodiversity
   - ENVS*3000 [0.50] Nature Interpretation
   - ENVS*3010 [0.50] Climate Change Biology
   - GEOG*2480 [0.50] Mapping and GIS
   - GEOG*3020 [0.50] Global Environmental Change
   - GEOG*3110 [0.50] Biotic and Natural Resources
   - GEOG*3210 [0.50] Management of the Biophysical Environment
   - GEOG*3480 [0.50] GIS and Spatial Analysis
   - GEOG*4110 [1.00] Environmental Systems Analysis
   - GEOG*4230 [0.50] Environmental Impact Assessment
   - GEOG*4480 [1.00] Applied Geographic Information Systems
   - BIOL*4500 [0.50] Natural Resource Policy Analysis
   - ECON*2100 [0.50] Economic Growth and Environmental Quality
   - FARE*2700 [0.50] Survey of Natural Resource Economics
   - GEOG*2210 [0.50] Environment and Resources
   - GEOG*4210 [0.50] Environmental Governance
   - GEOG*4220 [0.50] Local Environmental Management
   - PHIL*2070 [0.50] Philosophy of the Environment
   - POLS*3370 [0.50] Environmental Politics and Governance

   Independent Research and Field Courses
   - BIOL*4410 [0.75] Field Ecology
   - BIOL*4700 [0.50] Field Biology
   - BIOL*4710 [0.25] Field Biology
   - BIOL*4800 [0.50] Field Biology
   - BIOL*4810 [0.25] Field Biology
   - ENVS*3410 [0.50] Independent Research I
   - ENVS*3420 [0.50] Independent Research II
   - ENVS*3430 [1.00] Independent Research
   - IBIO*4500 [0.75] Research in Integrative Biology I
   - IBIO*4510 [0.75] Research in Integrative Biology II
   - IBIO*4521 [1.00] Thesis in Integrative Biology
   - IBIO*4522 [1.00] Thesis in Integrative Biology
   - ZOO*4300 [0.75] Marine Biology and Oceanography

Credit Summary (20.00 Total Credits)

7.00 credits - Environmental Sciences core
6.00 credits - Ecology Required courses
5.00 credits - Ecology Restricted electives
2.00 credits - Free electives

Students are reminded that 6.00 credits of their B.Sc. (Env.) degree must be at the 3000-4000 level.

Students are encouraged to seek advice on their choices from their faculty advisor. With prior approval, students may be able to use courses not on these lists towards their Ecology restrictive electives.

Environmental Sciences (ENVS)

School of Environmental Sciences, Ontario Agricultural College

Major

Semester 1

BIOL*1070 [0.50] Discovering Biodiversity
CHEM*1040 [0.50] General Chemistry I
ENVS*1030 [1.00] Introduction to Environmental Sciences
MATH*1080 [0.50] Elements of Calculus I

Semester 2

BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1050 [0.50] General Chemistry II
FARE*1040 [1.00] Intro to Environmental Economics, Law & Policy
GEOG*1300 [0.50] Introduction to the Biophysical Environment

Semester 3

ENVS*2230 [0.50] Communications in Environmental Science
ENVS*2310 [0.50] Current Issues in Earth Surface Processes
ENVS*2330 [0.50] Current Issues in Ecosystem Science and Biodiversity
One of:
    - ECON*2100 [0.50] Economic Growth and Environmental Quality
    - FARE*2700 [0.50] Survey of Natural Resource Economics
0.50 electives or restricted electives from List A

Note: ENVS*2230 may be taken in either Semester 3 or 4.
Note: 1.00 credits from: (ENVS*2310, ENVS*2320, ENVS*2330, ENVS*2340) must be taken by the end of Semester 4. ENVS*2310 and/or ENVS*2330 may be substituted for ENVS*2320 and/or ENVS*2340, which would be taken in Semester 4.

Note: GEOG*3210 may be substituted for ECON*2100 or FARE*2700 and would be taken in Semester 5.

2012-2013 Undergraduate Calendar

Last Revision: Oct. 19, 2012
X. Degree Programs, Bachelor of Science in Environmental Sciences [B.Sc.(Env.)]

Semester 4

ENVS*2230 [0.50] Communications in Environmental Science
ENVS*2320 [0.50] Current Issues in Microbial and Molecular Science
ENVS*2340 [0.50] Current Issues in Agriculture and Landscape Mgmt
STAT*2040 [0.50] Statistics I

0.50 electives or electives from List A

Note: ENVS*2230 is taken in Semester 4 if not already taken in Semester 3.

Note: 1.00 credits from: (ENVS*2310, ENVS*2320, ENVS*2330, ENVS*2340) must be taken by the end of Semester 4. ENVS*2320 and/or ENVS*2340 may be substituted for ENVS*2310 and/or ENVS*2330, which would be taken in Semester 3.

Semester 5

2.50 electives or restricted electives from List A

Semester 6

2.50 electives or restricted electives from List A

Semester 7

ENVS*4001 [0.50] Project in Environmental Sciences *
2.00 electives or restricted electives from List A

Semester 8

ENVS*4002 [0.50] Project in Environmental Sciences *
2.00 electives or restricted electives from List A

* An Independent Research course may be substituted for ENVS*4001/2.

Restricted Electives

Students are required to choose a minimum of 8.00 credits from the following list, including at least 1.00 credit at the 4000-level. The list has been divided into sections however students may choose courses from any of the sections provided that they have the necessary prerequisites for the upper level courses they plan to take. Students are encouraged to seek advice on their choices from their faculty advisor and are reminded that 6.00 credits of the B.Sc.(Env.) degree must be at the 3000-4000 level.

List A

The following courses have as prerequisites courses from the first-year curriculum and/or courses within the list. Students are responsible for ensuring that they have the necessary pre-requisites for the courses they wish to take.

Aquatic Science:

BIOL*3450 [0.50] Introduction to Aquatic Environments
BIOL*4350 [0.50] Biology of Polluted Waters
ENVS*3150 [0.50] Aquatic Systems
ENVS*3190 [0.50] Environmental Water Chemistry
ENVS*3290 [0.50] Waterborne Disease Ecology

Atmospheric Science:

ENVS*2020 [0.50] Agrometeorology
ENVS*2030 [0.50] Meteorology and Climatology
ENVS*3050 [0.50] Micrometeorology
ENVS*4110 [0.50] Physical Meteorology
ENVS*4210 [0.50] Atmospheric Experimentation and Instrumentation

Ecological and Environmental Toxicology:

BIOL*3250 [0.50] Biochemistry
CHEM*3360 [0.50] Environmental Chemistry and Toxicology
ENVS*2320 [0.50] Current Issues in Microbial and Molecular Science
ENVS*3020 [0.50] Pesticides and the Environment
ENVS*3040 [0.50] Natural Chemicals in the Environment
ENVS*4130 [0.50] Chemical Ecology: Principles & Practice
MICR*3220 [0.50] Plant Microbiology
MICR*4180 [0.50] Microbial Processes in Environmental Management

Environment Sciences (ENVS/C)

School of Environmental Sciences, Ontario Agricultural College

Major

Semester 1 - Fall

BIOL*1070 [0.50] Discovering Biodiversity
CHEM*1040 [0.50] General Chemistry I
ENVS*1030 [1.00] Introduction to Environmental Sciences
MATH*1080 [0.50] Elements of Calculus I

Semester 2 - Winter

BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1050 [0.50] General Chemistry II
COOP*1100 [0.00] Introduction to Co-operative Education
FARE*1040 [1.00] Intro to Environmental Economics, Law & Policy
GEOG*1300 [0.50] Introduction to the Biophysical Environment

Last Revision: Oct. 19, 2012
2012-2013 Undergraduate Calendar
Semester 3 - Fall

ENVS*2230 [0.50] Communications in Environmental Science  
ENVS*2310 [0.50] Current Issues in Earth Surface Processes  
ENVS*2350 [0.50] Current Issues in Ecosystem Science and Biodiversity  
One of:  
ECON*2100 [0.50] Economic Growth and Environmental Quality  
FARE*2700 [0.50] Survey of Natural Resource Economics  

0.50 electives or restricted electives from List A

Note: ENVS*2230 may be taken in either Semester 3 or 5.

Note: 1.00 credits from: (ENVS*2310, ENVS*2320, ENVS*2330, ENVS*2340) must be taken by the end of Semester 5. ENVS*2310 and/or ENVS*2330 may be substituted for ENVS*2320 and/or ENVS*2340, which would be taken in Semester 5. Note: GEOG*3210 may be substituted for ECON*2100 or FARE*2700 and would be taken in Semester 6.

Winter Semester

COOP*1000 [0.00] Co-op Work Term I

Semester 4 - Summer

STAT*2040 [0.50] Statistics I  
2.00 electives or restricted electives from List A

Fall Semester

COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter

ENVS*2230 [0.50] Communications in Environmental Science  
ENVS*2320 [0.50] Current Issues in Microbial and Molecular Science  
ENVS*2340 [0.50] Current Issues in Agriculture and Landscape Mgmt  
1.00 electives or restricted electives from List A

Note: ENVS*2230 is taken in Semester 4 if not already taken in Semester 3.  
Note: 1.00 credits from: (ENVS*2310, ENVS*2320, ENVS*2330, ENVS*2340) must be taken by the end of Semester 5. ENVS*2320 and/or ENVS*2340 may be substituted for ENVS*2310 and/or ENVS*2330, which would be taken in Semester 3.

Summer Semester

COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall

ENVS*4001 [0.50] Project in Environmental Sciences *  
2.00 electives or restricted electives from List A

Semester 7 - Winter

ENVS*4002 [0.50] Project in Environmental Sciences *  
2.00 electives or restricted electives from List A

Summer Semester - (Optional)

COOP*4000 [0.00] Co-op Work Term IV

Semester 8 - Fall

2.50 electives or restricted electives from List A

* An Independent Research course may be substituted for ENVS*4001/2.

Restricted Electives

Students are required to choose a minimum of 8.00 credits from the following list, including at least 1.00 credit at the 4000-level. The list has been divided into sections however students may choose courses from any of the sections provided that they have the necessary prerequisites for the upper level courses they plan to take. Students are encouraged to seek advice on their choices from their faculty advisor and are reminded that 6.00 credits of the B.Sc. (Env.) degree must be at the 3000-4000 level.

Note: Students should note that many restricted electives require other restricted electives as prerequisites. Students should consult the most recent Undergraduate Calendar for specific requirements.

List A

The following courses have as prerequisites courses from the first-year curriculum and/or courses within the list. Students are responsible for ensuring that they have the necessary pre-requisites for courses they wish to take.

Aquatic Science:

BIOL*3450 [0.50] Introduction to Aquatic Environments  
BIOL*4350 [0.50] Biology of Polluted Waters  
ENVS*3150 [0.50] Aquatic Systems  
ENVS*3190 [0.50] Environmental Water Chemistry  
ENVS*3290 [0.50] Waterborne Disease Ecology  

Atmospheric Science:

ENVS*2020 [0.50] Agrometeorology  
ENVS*2030 [0.50] Meteorology and Climatology  
ENVS*3050 [0.50] Microclimatology  
ENVS*4110 [0.50] Physical Meteorology  
ENVS*4210 [0.50] Atmospheric Experimentation and Instrumentation  
PHYS*1070 [0.50] Introductory Physics for Life Sciences  
PHYS*1130 [0.50] Physics with Applications  

Ecological and Environmental Toxicology:

BIOL*2580 [0.50] Introduction to Biochemistry  
CHEM*3360 [0.50] Environmental Chemistry and Toxicology  
ENVS*2320 [0.50] Current Issues in Microbial and Molecular Science  
ENVS*3020 [0.50] Pesticides and the Environment  
ENVS*3040 [0.50] Natural Chemicals in the Environment  
ENVS*4130 [0.50] Chemical Ecology: Principles & Practice  
MICR*3220 [0.50] Plant Microbiology  
MICR*4180 [0.50] Microbial Processes in Environmental Management  
TOX*2000 [0.50] Principles of Toxicology  

Ecosystem Sciences and Biodiversity:

BIOL*2060 [0.50] Ecology  
ENVS*2210 [0.50] Introductory Apiculture  
ENVS*2330 [0.50] Current Issues in Ecosystem Science and Biodiversity  
ENVS*3000 [0.50] Nature Interpretation  
ENVS*3010 [0.50] Climate Change Biology  
ENVS*3090 [0.50] Insect Diversity and Biology  
ENVS*3230 [0.50] Agroforestry Systems  
ENVS*3250 [0.50] Forest Health and Disease  
ENVS*3270 [0.50] Forest Biodiversity  
ENVS*4040 [0.50] Behaviour of Insects  
ENVS*4230 [0.50] Biology of Aquatic Insects  
ENVS*4260 [0.50] Field Entomology  
ENVS*4270 [0.50] Insect Biosystematics  
ENVS*4350 [0.50] Forest Ecology  

Geoscience:

ENVS*1050 [0.50] Geology and the Environment  
ENVS*2110 [0.50] Earth Material Science  
ENVS*2150 [0.50] Terrestrial Systems  
ENVS*2200 [0.50] Glacial Geology  
ENVS*2400 [0.50] Sedimentary Environments  
ENVS*3060 [0.50] Groundwater  
ENVS*3260 [0.50] Field Methods in Geosciences  
ENVS*4280 [0.50] Geomicrobiology  
GEOG*3420 [0.50] Remote Sensing of the Environment  
GEOG*3480 [0.50] GIS and Spatial Analysis  
GEOG*3610 [0.50] Environmental Hydrology  
GEOG*4150 [0.50] Sedimentary Processes  

Plant Health and Pathology:

ENVB*4070 [0.50] Biological and Cultural Control of Plant Diseases  
ENVS*2040 [0.50] Plant Health and the Environment  
ENVS*3120 [0.50] Plant Pathology  
ENVS*4110 [0.50] Integrated Management of Invasive Insect Pests  
ENVS*4240 [0.50] Biological Activity of Pesticides  
MICR*3220 [0.50] Plant Microbiology  
PBIOL*4000 [0.50] Molecular and Cellular Aspects of Plant-Microbe Interactions  

Soil Science:

ENVS*2060 [0.50] Soil Science  
ENVS*3070 [0.50] Environmental Soil Chemistry  
ENVS*3080 [0.50] Soil and Water Conservation  
ENVS*3120 [0.50] Land Utilization  
ENVS*3130 [0.50] Lab and Field Methods in Groundwater  
ENVS*3200 [0.50] Environmental Soil Biology  
ENVS*4090 [0.50] Soil Management  
ENVS*4160 [0.50] Soil and Nutrient Management  
ENVS*4250 [0.50] Soils in the Landscape  
MICR*4140 [0.50] Soil Microbiology and Biotechnology  
PBIOL*4100 [0.50] Soil Plant Relationships  

Stewardship:

BIOL*3330 [0.50] Conservation Biology  
BIOL*4150 [0.50] Wildlife Conservation and Management  
ENVS*2120 [0.50] Introduction to Environmental Stewardship  
ENVS*3030 [0.50] Conservation Field Course  
ENVS*3110 [0.50] Resource Planning Techniques  
ENVS*3140 [0.50] Management of Turfgrass Diseases  
ENVS*4150 [0.50] Natural Resources Management Field Camp  

The following courses are guided independent study courses. The semester prior to enrolling in one of these courses the student must arrange for a faculty supervisor and develop a course proposal in consultation with that supervisor.

ENVS*3100 [0.50] Internship/Externship in Environmental Sciences  
ENVS*3410 [0.50] Independent Research I  
ENVS*3420 [0.50] Independent Research II  
ENVS*3430 [1.00] Independent Research  
ENVS*4410 [1.00] Advanced Independent Research I  
ENVS*4420 [1.00] Advanced Independent Research II  
ENVS*4430 [2.00] Advanced Independent Research

Credit Summary (20.00 Total Credits)

7.00 credits - Environmental Sciences core
1.50 credits - Required Courses for the Major
8.00 credits - Restricted Electives (List A)
3.50 credits - Free electives

Students are encouraged to seek advice from their faculty advisor and are reminded that 6.00 credits of their B.Sc.(Env.) degree must be at the 3000-4000 level. With prior approval, students may be able to use courses not on List A toward their restricted electives

Environmental Economics and Policy (EEP)
Department of Economics, College of Management and Economics

Department of Food, Agricultural and Resource Economics, Ontario Agricultural College

Major

Semester 1
BIOL*1070 [0.50] Discovering Biodiversity
CHEM*1040 [0.50] General Chemistry I
ENVS*1030 [1.00] Introduction to Environmental Sciences
MATH*1080 [0.50] Elements of Calculus I

Semester 2
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1050 [0.50] General Chemistry II
FARE*1040 [1.00] Intro to Environmental Economics, Law & Policy
GEOG*1300 [0.50] Introduction to the Biophysical Environment

Semester 3
ECON*1100 [0.50] Introductory Macroeconomics
ECON*2100 [0.50] Economic Growth and Environmental Quality
ENVS*2150 [0.50] Terrestrial Systems
FARE*2700 [0.50] Survey of Natural Resource Economics
One of:
BIOL*2580 [0.50] Introduction to Biochemistry
BIOL*2060 [0.50] Ecology
ENVS*1050 [0.50] Geology and the Environment
ENVS*2110 [0.50] Earth Material Science
ENVS*2310 [0.50] Current Issues in Earth Surface Processes
ENVS*2330 [0.50] Current Issues in Ecosystem Science and Biodiversity
GEOG*2480 [0.50] Mapping and GIS
PHYS*1070 [0.50] Introductory Physics for Life Sciences
PHYS*1080 [0.50] Physics for Life Sciences
TOX*2000 [0.50] Principles of Toxicology

Semester 4
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2740 [0.50] Economic Statistics
ECON*2770 [0.50] Introductory Mathematical Economics
FARE*3170 [0.50] Cost-Benefit Analysis
One of:
BIOL*2580 [0.50] Introduction to Biochemistry
BIOL*2060 [0.50] Ecology
ENVS*2020 [0.50] Agrometeorology
ENVS*2320 [0.50] Current Issues in Microbial and Molecular Science
ENVS*2340 [0.50] Current Issues in Agriculture and Landscape Mgmt
ENVS*3150 [0.50] Aquatic Systems
GEOG*2110 [0.50] Climate and the Biophysical Environment
GEOG*2480 [0.50] Mapping and GIS
PHYS*1070 [0.50] Introductory Physics for Life Sciences
PHYS*1080 [0.50] Physics for Life Sciences
PHYS*1130 [0.50] Physics with Applications

Note: STAT*2040 may be substituted for ECON*2740.

Semester 5
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*3710 [0.50] Advanced Microeconomics
ECON*3740 [0.50] Introduction to Econometrics
FARE*4290 [0.50] Land Economics

0.50 electives or restricted electives

Note: FARE*4290 is taught in even-numbered years.

Note: Students who wish to pursue graduate studies in Economics should take the following courses: ECON*3810, ECON*4710, ECON*4810 and ECON*4640.

Semester 6
2.50 electives or restricted electives

Semester 7
ENVS*4001 [0.50] Project in Environmental Sciences

2.00 electives or restricted electives

Semester 8
ECON*4930 [0.50] Environmental Economics
ENVS*4002 [0.50] Project in Environmental Sciences
FARE*4310 [0.50] Resource Economics

1.00 restricted electives or electives

Restricted Electives
Students in the Environmental Economics and Policy major are required to choose 2.50 additional credits from Food, Agricultural and Resource Economics (FARE*XXXX) or Economics (ECON*XXXX) at the 3000 or 4000 level. Students must also take 5.00 additional credits in science courses. A list of acceptable science courses (which includes some ECON and FARE courses to simultaneously meet the additional FARE and ECON restricted electives), is available at http://www.bsc.uoguelph.ca/Approved_electives.shtml.

Environmental Economics and Policy (EEP:C)
Department of Economics, College of Management and Economics

Department of Food, Agricultural and Resource Economics, Ontario Agricultural College

Major

Semester 1 - Fall
BIOL*1070 [0.50] Discovering Biodiversity
CHEM*1040 [0.50] General Chemistry I
ENVS*1030 [1.00] Introduction to Environmental Sciences
MATH*1080 [0.50] Elements of Calculus I

Semester 2 - Winter
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1050 [0.50] General Chemistry II
FARE*1040 [1.00] Intro to Environmental Economics, Law & Policy
GEOG*1300 [0.50] Introduction to the Biophysical Environment

Semester 3 - Fall
ECON*1100 [0.50] Introductory Macroeconomics
ECON*2100 [0.50] Economic Growth and Environmental Quality
ENVS*2150 [0.50] Terrestrial Systems
FARE*2700 [0.50] Survey of Natural Resource Economics
One of:
BIOL*2580 [0.50] Introduction to Biochemistry
BIOL*2060 [0.50] Ecology
ENVS*1050 [0.50] Geology and the Environment
ENVS*2110 [0.50] Earth Material Science
ENVS*2310 [0.50] Current Issues in Earth Surface Processes
ENVS*2330 [0.50] Current Issues in Ecosystem Science and Biodiversity
GEOG*2480 [0.50] Mapping and GIS
PHYS*1070 [0.50] Introductory Physics for Life Sciences
PHYS*1080 [0.50] Physics for Life Sciences
TOX*2000 [0.50] Principles of Toxicology

Winter Semester
FAPE*1000 [0.50] Co-op Work Term I

Semester 4 - Summer
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*2770 [0.50] Introductory Mathematical Economics
STAT*2040 [0.50] Statistics I

0.50 electives or restricted electives

Note: ECON*2740 may be substituted for STAT*2040.

Fall Semester
FAPE*2000 [0.50] Co-op Work Term II

Semester 5 - Winter
ECON*3740 [0.50] Introduction to Econometrics
FAPE*3170 [0.50] Cost-Benefit Analysis
One of:
BIOL*2580 [0.50] Introduction to Biochemistry
BIOL*2060 [0.50] Ecology
ENVS*2020 [0.50] Agrometeorology
ENVS*2320 [0.50] Current Issues in Microbial and Molecular Science
ENVS*2340 [0.50] Current Issues in Agriculture and Landscape Mgmt
ENVS*3150 [0.50] Aquatic Systems
GEOG*2110 [0.50] Climate and the Biophysical Environment
GEOG*2480 [0.50] Mapping and GIS
PHYS*1070 [0.50] Introductory Physics for Life Sciences
PHYS*1080 [0.50] Physics for Life Sciences
PHYS*1130 [0.50] Physics with Applications

1.00 electives or restricted electives

Note: Students who wish to pursue graduate studies in Economics should take the following courses: ECON*3810, ECON*4710, ECON*4810 and ECON*4640.

Summer Semester
FAPE*3000 [0.50] Co-op Work Term III

Semester 6 - Fall
ECON*3710 [0.50] Advanced Microeconomics

Last Revision: Oct. 19, 2012
ENVS*4001  [0.50] Project in Environmental Sciences  
FARE*4290  [0.50] Land Economics  
1.00 electives or restricted electives  

Note: FARE*4290 is taught in even-numbered years.  

**Semester 7 - Winter**  
ECON*4930  [0.50] Environmental Economics  
ENVS*4002  [0.50] Project in Environmental Sciences  
FARE*4310  [0.50] Resource Economics  
1.00 electives or restricted electives  

**Summer Semester (Optional)**  
COOP*4000  [0.00] Co-op Work Term IV  

**Semester 8 - Fall**  
2.50 electives or restricted electives  

**Restricted Electives**  
Students in the Environmental Economics and Policy major are required to choose 2.50 additional credits from Food, Agricultural and Resource Economics (FARE*XXXX) or Economics (ECON*XXXX) at the 3000 or 4000 level. Students must also take 5.00 additional credits in science courses. A list of acceptable science courses, which includes ECON and FARE courses, will be made available at http://www.bsc.uoguelph.ca/Approved_electives.shtml.  

**Environment and Resource Management (ERM):C**  
Department of Geography, College of Social and Applied Human Sciences  

**Major**  

**Semester 1**  
BIOL*1070  [0.50] Discovering Biodiversity  
CHEM*1040  [0.50] General Chemistry I  
ENVS*1030  [1.00] Introduction to Environmental Sciences  
MATH*1080  [0.50] Elements of Calculus I  

**Semester 2**  
BIOL*1090  [0.50] Introduction to Molecular and Cellular Biology  
CHEM*1050  [0.50] General Chemistry II  
FARE*1040  [1.00] Intro to Environmental Economics, Law & Policy  
GEOG*1300  [0.50] Introduction to the Biophysical Environment  

**Semester 3**  
GEOG*2000  [0.50] Geomorphology  
GEOG*2460  [0.50] Analysis in Geography  

One of:  
- ECON*2100  [0.50] Economic Growth and Environmental Quality  
- FARE*2700  [0.50] Survey of Natural Resource Economics  

1.00 electives  

**Semester 4**  
ENVS*2340  [0.50] Current Issues in Agriculture and Landscape Mgmt  
GEOG*2110  [0.50] Climate and the Biophysical Environment  
GEOG*2210  [0.50] Environment and Resources  
GEOG*2480  [0.50] Mapping and GIS  

0.50 electives  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 5.  

**Semester 5**  
ENVS*3120  [0.50] Land Utilization  
GEOG*3000  [0.50] Fluvial Processes  
GEOG*3110  [0.50] Biotic and Natural Resources  
GEOG*3210  [0.50] Management of the Biophysical Environment  

0.50 electives  

Note: GEOG*3610 may be substituted for ENVS*3120 or GEOG*3000 and would be taken in Semester 6.  

**Semester 6**  
GEOG*3480  [0.50] GIS and Spatial Analysis  

2.00 electives  

**Semester 7**  
ENVS*4001  [0.50] Project in Environmental Sciences  
GEOG*4110  [1.00] Environmental Systems Analysis  
1.00 electives  

**Semester 8**  
ENVS*4002  [0.50] Project in Environmental Sciences  
GEOG*4210  [0.50] Environmental Governance  

At least 1.00 credits from:  
- ENVS*3110  [0.50] Resource Planning Techniques  
- GEOG*4220  [0.50] Local Environmental Management  
- GEOG*4230  [0.50] Environmental Impact Assessment  

0.50 electives  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

**Semester 3 - Fall**  
GEOG*2000  [0.50] Geomorphology  
GEOG*2480  [0.50] Mapping and GIS  

1.50 electives  

**Winter Semester**  
COOP*2000  [0.00] Co-op Work Term II  

**Semester 4 - Summer**  
ENVS*2100  [0.50] Economic Growth and Environmental Quality  
GEOG*2210  [0.50] Environment and Resources  
STAT*2040  [0.50] Statistics I  

1.00 electives  

**Fall Semester**  
COOP*3000  [0.00] Co-op Work Term III  

**Semester 5 - Winter**  
ENVS*3120  [0.50] Land Utilization  
ENVS*4001  [0.50] Project in Environmental Sciences  
GEOG*3000  [0.50] Fluvial Processes  
GEOG*3110  [0.50] Biotic and Natural Resources  
GEOG*3210  [0.50] Management of the Biophysical Environment  

Note: GEOG*3610 may be substituted for ENVS*3120 or GEOG*3000 and would be taken in Semester 7.  

**Semester 6 - Fall**  
ENVS*4002  [0.50] Project in Environmental Sciences  
GEOG*4210  [0.50] Environmental Governance  

At least 1.00 credits from:  
- ENVS*3110  [0.50] Resource Planning Techniques  
- GEOG*4220  [0.50] Local Environmental Management  
- GEOG*4230  [0.50] Environmental Impact Assessment  

0.50 electives  

**Summer Semester (Optional)**  
COOP*4000  [0.00] Co-op Work Term IV  

**Semester 8 - Fall**  
GEOG*4110  [1.00] Environmental Systems Analysis  

1.50 electives  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

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Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.  

Note: ENVS*2120 may be substituted for ENVS*2340 and could be taken in Semester 3 or 6.
Doctor of Veterinary Medicine (D.V.M.)

Program Information

The University of Guelph offers the degree program Doctor of Veterinary Medicine (D.V.M.) at the Ontario Veterinary College. The program is offered during the Fall and Winter semesters only and normally requires four years to complete. The college is accredited jointly by the Canadian and American Veterinary Medical Association, and the Royal College of Veterinary Surgeons of Britain. The D.V.M. degree from Guelph is respected by veterinarians throughout the world.

Students entering the D.V.M. Program prior to Fall 2000 should refer to the undergraduate calendar for their year of program entry for appropriate course listings.

Objectives of the Program

1. The graduates should have the knowledge and skills appropriate to their career orientations and sufficient to allow the pursuit of a variety of careers in veterinary medicine, including graduate studies. They should be able to pass the examinations of all Canadian licensing bodies and must possess a fundamental core of academic veterinary science knowledge and of technical competence.
2. The graduates must be able to solve animal health problems and must have knowledge of the management of domestic animals and the functioning of the various animal industries.
3. The graduates must be able to communicate effectively, whether writing scientific papers or conversing with clients.
4. Through a commitment to continuing education, the graduates must accept the professional responsibility to stay abreast of new developments and to pursue solutions to new problems.
5. The graduates must have a genuine concern for the welfare of all animals. The graduates should be aware of their responsibilities to the profession in terms of ethical and professional conduct and have an understanding of the moral questions facing veterinarians.
6. The graduates must have had the opportunity during their university tenure to develop a range of non-veterinary interests sufficient to equip them to take a responsible role in society.

Regulations for Licence to Practise

Graduates are eligible to practise in Canada, but the degree in veterinary medicine does not in itself confer the right to practise. For information on matters relative to licence to practise in the various provinces of Canada, students should communicate with the Canadian Veterinary Medical Association, 339 Booth Street, Ottawa, Ontario, Canada K1R 7K1, who will refer them to the appropriate provincial veterinary association.

Admission to the Veterinary Medicine Program

Complete details on admission requirements and procedures are listed in Section IV—Admission Information.

Academic Counselling

The Office of the associate Dean, Students provides academic counselling and referral to other appropriate resources for all D.V.M. students. In particular, students who are requesting a Supplemental Privilege are required to meet with the Associate Dean so that the student can be informed of appropriate resources (such as Learning and Writing Services and the Counselling and Student Resource Centre) and use them to deal with his or her academic difficulties.

Conditions for Continuation of Study

For supplemental and deferred privileges, all students in the D.V.M. Program are subject to Deferred Privilege Procedures and Supplemental Privilege Procedures outlined in Chapter VIII—Undergraduate Degree Regulations and Procedures. For continuation of study, a student must satisfy the conditions presented below. In order to graduate, students must fulfill the course requirements for the program and have achieved at least a 60% Program Average (PA). The Academic Review Sub-Committee will assess all cases where a student's academic progress does not meet the Continuation of Study requirements and will interpret the academic regulations. The requirements will be applied with due consideration to the credit weights of the course, the role of the course in the Phase and the degree of integration of the course with concurrently required courses, and in light of the student's particular circumstances (see VIII—Undergraduate Degree Regulations and Procedures).

Full-time Study

The D.V.M. program is offered as a full-time program and normally requires four years (over the equivalent of eight academic semesters at the University of Guelph) to complete. In exceptional extenuating circumstances, the Academic Review Sub-Committee may allow a student to take courses on a part-time basis. In these instances, the Academic Review Sub-Committee has the discretion to select the courses that the student will register in on a part-time basis. Students permitted to take courses on a part-time basis are cautioned that there is an enrolment limitation for the program and that access to certain courses or resumption of the program on a full-time basis will be conditional on the availability of space.

Failed Courses

1. Continuation of study from one phase of the D.V.M. Program to the next is dependent on the successful completion of all courses, or approved equivalents, in the published schedule of studies for the D.V.M. Program.
2. A student who fails one course in a Phase may be required to repeat all courses in the Phase. The consequences of failure of any particular course in the D.V.M. Program are as follows:
   a. Failure in any of the following courses result in the Repeat of the Course: VETM*3210, VETM*3390, VETM*3430, VETM*3220, VETM*3440, VETM*3510, VETM*4220, VETM*4450, VETM*4530, VETM*4610, VETM*4620, VETM*4660, VETM*4670, VETM*4680, VETM*4710, VETM*4720, VETM*4870, VETM*4880, VETM*4890, VETM*4900, VETM*4920, VETM*4930, VETM*4940.
   b. Failure in any of the following courses result in the Repeat of the Phase: VETM*3070, VETM*3080, VETM*3120, VETM*3400, VETM*3410, VETM*3450, VETM*3460, VETM*3470, VETM*4460, VETM*4470, VETM*4480, VETM*4490, VETM*4540.

   This information is also available as part of the Phase Handbooks.
3. A student will be allowed to fail a particular course only once. Any student who fails the same course twice will be required to withdraw and will be ineligible for readmission to the D.V.M. Program.
4. Grades obtained by D.V.M. students who repeat one or more VETM course(s) will be reported on the transcript in addition to the original course grade. In the instance where all courses in a Phase are repeated, the grades from the repeated VETM courses will constitute the new Phase Average (PHA). The new D.V.M. Program Average will include the grades obtained in both the original and repeated VETM course attempts.

Supplemental Privileges

1. In the circumstances of a failed course, the Academic Review Sub-Committee may, if appropriate and under special circumstances only, allow the student the opportunity to gain credit standing in a failed course by granting a supplemental privilege (see Failed Courses and Supplemental Privilege in Section VIII). Students must request a supplemental privilege by submitting the request to the Academic Review Sub-Committee, and the fee for the privilege, within 7 days of the release of grades for the phase in which the failure occurred. The Academic Review Sub-Committee, upon receiving a request from a student, and after consulting with the instructor and reviewing the student's course performance, will determine whether a supplemental privilege should be granted.
2. Students will be permitted supplemental privileges in a maximum of two courses over the entire D.V.M. Program. A supplemental privilege will not be granted for a second failure in a course. Any student granted a supplemental privilege must meet with the Associate Dean for Student Affairs who will inform the student of appropriate resources to be used to deal with his/her academic difficulties.

Conditions for Graduation

In order to qualify for graduation from the D.V.M. program, the student must have completed successfully all of the courses approved for the program. Students will not be allowed to graduate with a PA of < 60% or PHA of < 60% in Phase 4.

Voluntary Withdrawal from the Program

Students who have voluntarily withdrawn from the D.V.M. program and who wish to return must give notice to the Assistant Dean for Student Affairs, O.V.C., of their intention to return by May 31 if they wish to return in September of the upcoming academic year. Students contemplating a withdrawal from the program are cautioned that there is an enrolment limitation for the program and that re-entry will be conditional on the availability of space. The Program Committee reserves the right to select the quota from among the qualified applicants.

Estimate of Expenses

Attention is drawn to Section VI—Schedule of Fees for information on tuition, University student organizations and rabies immunization required for all students in the program. In addition, while the college supplies most laboratory equipment, students may wish to purchase instruments for personal use. Texts, protective clothing, and a minimum of supplies for personal use may cost approximately $500 per semester.

Health and Safety

Students must follow the health and safety policies required for the various courses in the veterinary program. Pregnant students and others with increased medical risks should consult Health Services concerning potential health risks which may occur during the normal course of their studies.
Immunization against rabies is a requirement for admission and continuation in the D.V.M. Program. Annual rabies titres and booster immunizations (if necessary) are mandatory for all Program participants. Prospective students and in-course students should contact Student Health Services (519-824-4120 extension 52131) for further information and guidance about the rabies surveillance program. Faculty and staff members should contact Occupational Health Services, extension 52133, for information about medical surveillance programs provided in accordance with University Safety Policy 851.13.03.

Schedule 4 (D.V.M. Continuation of Study)

Students admitted to the DVM Program in Fall 2007 or earlier follow Schedule 4 and should consult the appropriate calendar http://www.uoguelph.ca/registrar/calendars/index.cfm?undergraduate.

Schedule 5 (D.V.M. Continuation of Study)

Students admitted to the DVM in Fall 2008 or beyond follow Schedule 5.

Continuation of Study is assessed on the student's D.V.M. Program Average (not the University Cumulative Average) and according to the policy on failures as stated above. In Phase 2 and beyond, eligibility to continue is also assessed at the end of each Phase using the Phase Average (PHA). Courses that are given a grade of Pass or Fail do not affect either the PA or PHA because they are not attached to any numerical grade.

Students required to repeat a Phase must achieve the required PA of > 60% by the end of the repeated Phase. If a student does not achieve the required standing by the end of the repeated Phase, he or she will normally be required to withdraw from the program.

The required averages are as follows:

For Course Attempts in Phase 1

<table>
<thead>
<tr>
<th>Program Average (PA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>PA ≥ 50% but &lt; 60%</td>
<td>Required to Repeat Phase</td>
</tr>
<tr>
<td>PA ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>

If Repeating Phase 1:

<table>
<thead>
<tr>
<th>Program Average (PA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA &lt; 60%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>PA ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>

For Course Attempts in Phase 2

Continuation of Study Assessment for DVM Students in Phase 2

<table>
<thead>
<tr>
<th>Program Average (PA) and Phase Average (PHA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHA &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>PA or PHA ≥ 50% but &lt; 60%</td>
<td>Required to Repeat Phase</td>
</tr>
<tr>
<td>PA and PHA ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>

If Repeating Phase 2:

<table>
<thead>
<tr>
<th>Program Average (PA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA &lt; 60%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>PA ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>

For Course Attempts in Phase 3

Continuation of Study Assessment for DVM Students in Phase 3

<table>
<thead>
<tr>
<th>Program Average (PA) and Phase Average (PHA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHA &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>PA or PHA ≥ 50% but &lt; 60%</td>
<td>Required to Repeat Phase*</td>
</tr>
<tr>
<td>PA and PHA ≥ 60%</td>
<td>Eligible to Continue</td>
</tr>
</tbody>
</table>

* Students finishing Phase 3 with a PA or PHA > 50% but < 60%, will not be permitted to proceed to the Externship course or into Phase 4.

If Repeating Phase 3:

<table>
<thead>
<tr>
<th>Program Average (PA) and Phase Average (PHA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHA &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>PA or PHA ≥ 50% but &lt; 60%</td>
<td>Required to RemEDIATE*</td>
</tr>
<tr>
<td>PA and PHA ≥ 60%</td>
<td>Eligible to Continue**</td>
</tr>
</tbody>
</table>

For Course Attempts in Phase 4

Continuation of Study Assessment for DVM Students in Phase 4

<table>
<thead>
<tr>
<th>Program Average (PA) and Phase Average (PHA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHA &lt; 50%</td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>PA or PHA ≥ 50% but &lt; 60%</td>
<td>Required to RemEDIATE*</td>
</tr>
<tr>
<td>PA and PHA ≥ 60%</td>
<td>Eligible to Continue**</td>
</tr>
</tbody>
</table>

** Students finishing Phase 4 with a PA and PHA ≥ 60% and having satisfied all course requirements for the program are Eligible to Graduate.

Schedule of Studies

Phase 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Program Average (PA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>VETM*3000</td>
<td>[0.50]</td>
<td>Veterinary Biochemistry</td>
</tr>
<tr>
<td>VETM*3070</td>
<td>[2.00]</td>
<td>Veterinary Anatomy</td>
</tr>
<tr>
<td>VETM*3080</td>
<td>[1.50]</td>
<td>Veterinary Physiology</td>
</tr>
<tr>
<td>VETM*3120</td>
<td>[0.75]</td>
<td>Veterinary Histology</td>
</tr>
<tr>
<td>VETM*3210</td>
<td>[0.50]</td>
<td>Art of Veterinary Medicine I</td>
</tr>
<tr>
<td>VETM*3390</td>
<td>[0.50]</td>
<td>Veterinary Medical Genetics</td>
</tr>
<tr>
<td>VETM*3400</td>
<td>[0.75]</td>
<td>Health Management I</td>
</tr>
<tr>
<td>VETM*3430</td>
<td>[0.25]</td>
<td>Clinical Medicine I</td>
</tr>
</tbody>
</table>

Phase 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Program Average (PA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>VETM*3220</td>
<td>[0.50]</td>
<td>Art of Veterinary Medicine II</td>
</tr>
<tr>
<td>VETM*3410</td>
<td>[0.75]</td>
<td>Health Management II</td>
</tr>
<tr>
<td>VETM*3440</td>
<td>[0.50]</td>
<td>Clinical Medicine II</td>
</tr>
<tr>
<td>VETM*3450</td>
<td>[2.75]</td>
<td>Principles of Disease in Veterinary Medicine</td>
</tr>
<tr>
<td>VETM*3460</td>
<td>[0.75]</td>
<td>Theriogenology</td>
</tr>
<tr>
<td>VETM*3470</td>
<td>[0.75]</td>
<td>Anaesthesiology and Pharmacology</td>
</tr>
<tr>
<td>VETM*3510</td>
<td>[0.25]</td>
<td>Principles of Surgery</td>
</tr>
</tbody>
</table>

Phase 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Program Average (PA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>VETM*4220</td>
<td>[0.50]</td>
<td>Art of Veterinary Medicine III</td>
</tr>
<tr>
<td>VETM*4420</td>
<td>[0.25]</td>
<td>Clinical Pharmacology</td>
</tr>
<tr>
<td>VETM*4450</td>
<td>[0.50]</td>
<td>Equine Medicine and Surgery</td>
</tr>
<tr>
<td>VETM*4460</td>
<td>[1.00]</td>
<td>Food Animal Medicine and Surgery</td>
</tr>
<tr>
<td>VETM*4470</td>
<td>[1.00]</td>
<td>Medicine and Surgery of Dog and Cat</td>
</tr>
<tr>
<td>VETM*4480</td>
<td>[0.75]</td>
<td>Comparative Medicine</td>
</tr>
<tr>
<td>VETM*4490</td>
<td>[1.00]</td>
<td>Systems Pathology</td>
</tr>
<tr>
<td>VETM*4530</td>
<td>[0.50]</td>
<td>Health Management III</td>
</tr>
<tr>
<td>VETM*4540</td>
<td>[1.75]</td>
<td>Surgical Exercises</td>
</tr>
<tr>
<td>VETM*4870</td>
<td>[0.25]</td>
<td>Clinical Medicine III</td>
</tr>
</tbody>
</table>

Phase 4

Students entering into the Phase 4 of the DVM Program will select an area of emphasis from either: Small Animal Stream, Mixed Stream, Equine Stream or the Food Animal Stream.

Small Animal Stream:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Program Average (PA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>VETM*4620</td>
<td>[1.00]</td>
<td>Health Management - Small Animal Stream</td>
</tr>
<tr>
<td>VETM*4880</td>
<td>[3.25]</td>
<td>Electives in Veterinary Medicine I</td>
</tr>
<tr>
<td>VETM*4900</td>
<td>[2.50]</td>
<td>Veterinary Externship</td>
</tr>
</tbody>
</table>

Mixed Stream:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Program Average (PA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>VETM*4660</td>
<td>[2.00]</td>
<td>Small Animal Clinics - Mixed Stream</td>
</tr>
<tr>
<td>VETM*4670</td>
<td>[1.50]</td>
<td>Large Animal Clinics - Mixed Stream</td>
</tr>
<tr>
<td>VETM*4680</td>
<td>[2.00]</td>
<td>Health Management - Mixed Stream</td>
</tr>
<tr>
<td>VETM*4890</td>
<td>[2.00]</td>
<td>Electives in Veterinary Medicine II</td>
</tr>
<tr>
<td>VETM*4900</td>
<td>[2.50]</td>
<td>Veterinary Externship</td>
</tr>
</tbody>
</table>

Equine Stream:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Program Average (PA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>VETM*4920</td>
<td>[1.50]</td>
<td>Small Animal Clinics - Equine Stream</td>
</tr>
<tr>
<td>VETM*4930</td>
<td>[2.50]</td>
<td>Large Animal Clinics - Equine Stream</td>
</tr>
<tr>
<td>VETM*4940</td>
<td>[1.50]</td>
<td>Health Management - Equine Stream</td>
</tr>
<tr>
<td>VETM*4890</td>
<td>[2.00]</td>
<td>Electives in Veterinary Medicine II</td>
</tr>
<tr>
<td>VETM*4900</td>
<td>[2.50]</td>
<td>Veterinary Externship</td>
</tr>
</tbody>
</table>

Food Animal Stream:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Program Average (PA)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>VETM*4710</td>
<td>[1.00]</td>
<td>Large Animal Clinics - Food Animal Stream</td>
</tr>
<tr>
<td>VETM*4880</td>
<td>[3.25]</td>
<td>Electives in Veterinary Medicine I</td>
</tr>
<tr>
<td>VETM*4900</td>
<td>[2.50]</td>
<td>Veterinary Externship</td>
</tr>
</tbody>
</table>
Co-operative Education Programs

Co-operative Education (Co-op), a form of work integrated learning, is a model of education that integrates a student’s academic learning with periods of paid workplace learning in fields relevant to the student’s academic and personal/professional goals. The academic and work schedules will vary with degree program and major. The first co-op work term is scheduled after the third or fourth academic semester, providing an academic foundation on which to build the work experience. Co-op is delivered in concert with employer partners, and constitutes part of the student’s formal curriculum.

Each work term is developed in collaboration with the employer and is approved by the institution as a suitable learning environment. Students participate in a competitive employment process to secure an approved co-op work term that is relevant to the student’s area of academic study. COOP*1100 – Introduction to Co-operative Education, a mandatory, non-credit course, is a prerequisite for the first work term and prepares the student for the employment process.

The student’s performance in the workplace is supervised and evaluated by the student’s employer using the Work Performance Evaluation tool. The student’s progress during the work term is also monitored by Co-operative Education & Career Services, including an official site visit during the co-op work term. A Co-op Work Term Report is required for each work term and is graded by an assigned Co-op Faculty Advisor. All evaluation grades will appear on the student’s official transcript.

Admission Information

Normally students are admitted to a Co-operative Education program directly from high school in the Fall semester through Admission Services. For a complete listing of University of Guelph admission requirements please refer to www.uoguelph.ca/admissions.

Some programs may admit a small number of in-course students after first or second semester. Please refer to the schedule of dates in the Undergraduate Calendar for in-course application deadlines. The decision to admit an in-course student is dependent upon space in the program, the grades of the student, the approved Academic & Work Sequence Agreement, and any other information relevant to the program.

Eligibility

High school students must have a minimum average of 80% to apply to the co-op program. Once accepted to the University of Guelph, the student must maintain a 70% cumulative average in the first 2 semesters (full-time study) in order to remain in the co-op program.

Transfer students must meet normal admission requirements, as well as complete one academic semester at Guelph and achieve a minimum 70% cumulative average prior to participating in the co-op process. An academic and work schedule must also be approved prior to the student being accepted into the co-op program.

Continuation of Study

Students are required to meet a continuation requirement at the end of semester two. Students will be allowed to continue in the co-op program if their cumulative average, over 4.0 credits, is 70% or higher after two full-time Fall and Winter academic semesters. Students are also required to meet the conditions for continuation of study for their degree program as listed in the Undergraduate Calendar. In addition, all students must satisfactorily complete COOP*1100 - Introduction to Co-operative Education in the semester scheduled.

It is mandatory that co-op students be registered full-time for the duration of their program as outlined in the schedule of studies listed in the Undergraduate Calendar. Co-op students are also required to meet other conditions, (e.g. satisfactory work term reports and work performance evaluations) in order to continue in the co-op program. Complete conditions for continuation of study for a co-op program are outlined in the Policy Agreement for Student Involvement in Co-operative Education. The complete policy can be viewed at http://www.cecs.uoguelph.ca/students/co-op/current_co-op_students/policy_agreement.

Release of Academic Information

By applying to the co-op program, students grant permission to the Registrar's Office to release to Co-operative Education & Career Services their University of Guelph transcript and any transcripts from other post-secondary institutions that may be part of the Academic Record held by the Registrar's Office. Students also grant permission to Co-operative Education & Career Services to release their resumes, cover letters and any transcripts released by the Registrar's Office to prospective employers to whom the students are applying. Employment information, the Co-op Work Term Performance Evaluation, and the Co-op Work Term Report Evaluation will appear on the student's official academic transcript.

Procedures for Work Semester Reports

A Work Report is required for each co-op Work Term in which the student is registered. Work Reports are graded by the Co-op Faculty Advisor and must be submitted to the Co-op Faculty Advisor according to the deadline indicated in the Undergraduate Calendar. Students completing two consecutive co-op Work Terms with the same employer should consult with their Co-op Faculty Advisor regarding Co-op Work Report requirements for eight-month co-op Work Terms. A grade of Outstanding, Very Good, Good, Satisfactory, or Unsatisfactory will appear on the student's Academic Record.

A student who receives an Unsatisfactory Co-op Work Report Evaluation will be given one opportunity to make revisions and resubmit the report. Students who are resubmitting a Co-op Work Report will not be eligible to proceed to the next employment process until receiving a grade of Satisfactory or higher on the report. If, upon resubmission, the Work Report Evaluation is still unsatisfactory, the student will be required to withdraw from Co-op and may continue in the regular program if available.

Confidential Work Term Reports are not permitted.

Conditions for Graduation

In order to graduate, co-op students must follow the conditions for graduation for their degree program as outlined in the Undergraduate Calendar. In addition, students must receive evaluations of Good or higher in all but one Work Performance Evaluations and an evaluation of Satisfactory or higher in all Work Report Evaluations. Students must also have all co-op fees, including eight full-time academic semesters and all work terms, paid prior to applying to graduate with co-op certification.

Students wanting to graduate with less than the required number of co-op work terms must contact their Co-op Co-ordinator with the request. As the University of Guelph co-op program is accredited by the The Canadian Association for Co-operative Education (CAPCE), standardized guidelines regarding co-op work terms will be followed at all times.

Co-op Fees

Students entering the co-op program are advised to carefully review the schedule of studies for the degree programs offering a Co-operative Education program. Normally students must follow the prescribed academic/work sequence. If, under exceptional circumstances, the schedule cannot be followed, the student must obtain written approval of an alternative academic/work sequence from the assigned Co-op Faculty Advisor and submit the form to the Co-op Office for final approval. In unusual circumstances the Director of Co-operative Education & Career Services may be involved in the approval process.
University of Guelph-Humber

For University of Guelph-Humber programs please refer to http://www.guelphhumber.ca.
Associate Diploma Programs

For Associate Diploma Programs please refer to the Associate Diploma Program Calendar, available on the world wide web at http://www.uoguelph.ca/diploma_calendar/.
XI. Special Study Opportunities

Certificates and Diplomas

The University offers certificate and diploma programs in Applied Statistics, Business, Communication Process, Environmental Citizenship, Environmental Conservation, Food Science, Hospitality Studies, Leadership, Public Policy and Administration and Scottish Studies. These programs are designed for those who want to develop or upgrade skills in one of these areas without necessarily proceeding towards a three or four year degree program. These programs may be completed on a part-time basis over a period of time.

Students currently registered in a degree program or intending to transfer into a degree program should note double-counting regulations. Up to 50% of the requirements for a degree-credit certificate/diploma may be applied toward a major, minor or area of emphasis.

The remaining 50% of the certificate/diploma requirements may be applied to electives provided the specific courses in the certificate/diploma meet degree program requirements.

For more information on double-counting regulations, undergraduate students should consult with the Program Counsellor for the degree program they seek to complete. Note that the Certificate in Leadership is exempt from this restriction.

For more information on the certificates, please consult with the Open Learning program Counsellor at the Centre for Open Learning and Educational Support (ext. 56050).

Certificate in Business

The Certificate in Business is designed to be beneficial to those who are not enrolled in a business program, but wish to gain knowledge of business concepts. It provides participants with opportunities to develop the professional skills essential for success in business environments. The functional areas of business are introduced in required courses.

Participants may customize their learning through their choice of electives by either focusing on one particular subject area or selecting from different subject areas for more breadth. The Certificate in Business, available to both undergraduate students and open learners, is offered by the University of Guelph through the College of Management and Economics.

Required Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGTM*2150</td>
<td>Introduction to Canadian Business Management</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Restricted Electives

2.0 credit from:

- ACCT*2220  Financial Accounting
- BUS*2090  Individuals and Groups in Organizations
- ECON*1050  Introductory Microeconomics
- ECON*1100  Introductory Macroeconomics
- ECON*2200  Industrial Relations
- EDRD*3140  Organizational Communication
- FARE*3310  Operations Management
- MCS*1000  Introductory Marketing
- MCS*2020  Marketing Information Management
- MCS*2100  Personal Financial Management
- MCS*3000  Advanced Marketing
- POLS*3470  Business-Government Relations in Canada

As part of the 2.0 credit restricted electives students may select one of:

- FREN*3530  Business French
- HISP*3530  Business Spanish

Note: B.COMM. students cannot take MGTM*2150 for credit.

** Note: Students registered in the Business Administration or Marketing Management minor are not eligible for the Certificate.

Certificate in Communication Process: Bridging Theory and Practice

The five-course online Certificate in Communication Process sets out to enhance participants’ knowledge, attitudes and skills necessary for successful careers in business, human resource management, education, medical and veterinary professions, social work, criminology, and international development.

This program focuses on facilitating knowledge-sharing through verbal and non-verbal signs and symbols, as it relates to units of different size and complexity - among individuals, groups, organizations, nations and regions of the world. By gaining insight into various communication processes, participants will be better equipped to effectively manage change in a constantly evolving environment.

The Certificate in Communication Process, available to both undergraduate students and open learners, is offered online through University of Guelph’s School of Environmental Design and Rural Development, and is structured as follows:

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDRD*2020DE</td>
<td>Interpersonal Communication</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*3120DE</td>
<td>Educational Communication</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*3140DE</td>
<td>Organizational Communication</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*3160DE</td>
<td>International Communication</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*4120DE</td>
<td>Leadership Development in Small Organizations</td>
<td>0.50</td>
</tr>
</tbody>
</table>

For more information, visit the website at: http://www.communicationprocess.ca/

Certificate in Environmental Citizenship

Developed from a social science perspective, this Certificate is beneficial to those who want to learn more about the global environmental issues facing us today and in the future. Participants gain in-depth knowledge about environmental changes, their global impact, and how one can directly contribute to the environment’s sustainability. The Certificate consists of six degree-credit distance education courses taken online from the University of Guelph’s School of Environmental Studies. It is structured as follows, requiring six courses total, to include at least two at the 3000 or 4000 level:

Required Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV*5/2070DE</td>
<td>Environmental Perspectives and Human Choices I</td>
<td>0.50</td>
</tr>
<tr>
<td>2 or 3 of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOT*2000DE</td>
<td>Plants, Biology and People</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*1050DE</td>
<td>Introductory Microeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2100DE</td>
<td>Economic Growth and Environmental Quality</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*3500DE</td>
<td>Recreation and Tourism Planning</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*4500DE</td>
<td>Planning Industrial Ecology: Design for Sustainability</td>
<td>1.00</td>
</tr>
<tr>
<td>ENVS*2120DE</td>
<td>Introduction to Environmental Stewardship</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*3280DE</td>
<td>Environmental Perspectives and Human Choices II</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*1220DE</td>
<td>Human Impact on the Environment</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2250DE</td>
<td>Environment and History</td>
<td>0.50</td>
</tr>
<tr>
<td>PHIL*2070DE</td>
<td>Philosophy of the Environment</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*3370DE</td>
<td>Environmental Politics and Governance</td>
<td>0.50</td>
</tr>
</tbody>
</table>

2 or 3 of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1500DE</td>
<td>Humans in the Natural World</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*2060DE</td>
<td>Ecology</td>
<td>0.50</td>
</tr>
<tr>
<td>BOT*1200DE</td>
<td>Plants and Human Use</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*3345DE</td>
<td>Watershed Planning Practice</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*4010DE</td>
<td>Tourism Planning in the Less Developed World</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*3000DE</td>
<td>Nature Interpretation</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*2210DE</td>
<td>Environment and Resources</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*3020DE</td>
<td>Global Environmental Change</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*3210DE</td>
<td>Management of the Biophysical Environment</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*3490DE</td>
<td>Tourism and Environment</td>
<td>0.50</td>
</tr>
</tbody>
</table>

For more information, please visit the website at: http://www.environmentcertificates.com.

Certificate in Environmental Conservation

Developed from a biophysical science perspective, this Certificate is beneficial to those who want to gain knowledge of issues surrounding environmental protection, conservation and preservation, and environmental research. The Certificate consists of six degree-credit distance education courses taken online from the University of Guelph’s School of Environmental Studies. The program is designed to provide participants with the credentials they need for professional advancement in the environment industry and/or personal enrichment. It is structured as follows, requiring six courses total, to include at least two at the 3000 or 4000 level:

Required Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV*5/2120DE</td>
<td>Introduction to Environmental Stewardship</td>
<td>0.50</td>
</tr>
<tr>
<td>2 or 3 of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDRD*3345DE</td>
<td>Watershed Planning Practice</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*1220DE</td>
<td>Human Impact on the Environment</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*3020DE</td>
<td>Introduction to the Biophysical Environment</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*1060DE</td>
<td>Principles of Geology</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*2250DE</td>
<td>Geology of Natural Disasters</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*2060DE</td>
<td>Soil Science</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*3080DE</td>
<td>Soil and Water Conservation</td>
<td>0.50</td>
</tr>
</tbody>
</table>

2 or 3 of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2060DE</td>
<td>Ecology</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*3450DE</td>
<td>Introduction to Aquatic Environments</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*3000DE</td>
<td>Nature Interpretation</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*3040DE</td>
<td>Natural Chemicals in the Environment</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*2210DE</td>
<td>Environment and Resources</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*3020DE</td>
<td>Global Environmental Change</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*3210DE</td>
<td>Management of the Biophysical Environment</td>
<td>0.50</td>
</tr>
</tbody>
</table>

For more information, please visit the website at: http://www.environmentcertificates.com.

Certificate in Food Science

The Certificate in Food Science program is offered by the Department of Food Science in a distance education mode. Normally, learners will require two years to complete the process. The certificate program is aimed at upgrading individuals who either have a formal university education in an area other than Food Science or have been working in Food Science-related areas but who have no academic background in Food Science. The certificate program concentrates on the chemistry, analysis, microbiology and processing of foods, and on the maintenance of food safety and quality throughout. All courses are offered in an interactive format via the internet.
The Certificate in Food Science is a program offered by the Department of Food Science. This program aims to provide students with a comprehensive understanding of the principles of food science, and practical skills to work in the food industry. The program consists of courses that cover food chemistry, food microbiology, food analysis, and food processing.

Required Courses
- **FOOD*2010** [0.50] Principles of Food Science
- **FOOD*2150** [0.50] Introduction to Nutritional and Food Science
- **FOOD*2400** [0.50] Introduction to Food Chemistry
- **FOOD*3030** [0.50] Food Chemistry I
- **FOOD*2410** [0.50] Introduction to Food Processing
- **FOOD*3160** [0.50] Food Processing I
- **FOOD*2420** [0.50] Introduction to Food Microbiology
- **FOOD*3230** [0.50] Food Microbiology
- **FOOD*3430** [0.50] Introduction to Food Analysis
- **FOOD*4120** [0.50] Food Analysis

For more information, please visit the website at: [http://www.foodsciencecertificate.com](http://www.foodsciencecertificate.com)

Certificate in Hospitality Studies
The Certificate in Hospitality Studies is offered online from the University of Guelph's School of Hospitality and Tourism Management, College of Management and Economics. This program is designed to provide an overview of the hospitality industry, an understanding of human resources management principles and financial management skills. It is perfect for individuals needing additional formal education to assume greater management responsibilities.

Required Courses
- **ACCT*2230** [0.50] Management Accounting
- **BUS*2090** [0.50] Individuals and Groups in Organizations
- **BUS*3000** [0.50] Human Resources Management
- **HTM*2030** [0.50] Control Systems in the Hospitality Industry
- **MGMT*2150** [0.50] Introduction to Canadian Business Management

For more information, please visit the website at: [http://www.hospitalitystudies.com](http://www.hospitalitystudies.com)

Certificate in Leadership
The Certificate in Leadership is offered by the University of Guelph through the College of Management and Economics. This program allows participants to complete both their degree program and the certificate concurrently. It is designed for students who wish to enter the Certificate in Food Science program.

Required Courses
- **HROB*2100** [0.50] Foundations of Leadership
- **HROB*4010** [0.50] Leadership Capstone

Ethics Course Requirement (Select 0.50 credits)
- **PHIL*2120** [0.50] Ethics
- **PHIL*2600** [0.50] Business and Professional Ethics
- **POLS*3440** [0.50] Corruption, Scandal and Political Ethics

Electives (Select 1.00 credits)
- **BUS*2090** [0.50] Individuals and Groups in Organizations
- **BUS*3000** [0.50] Human Resources Management
- **EDRD*3140** [0.50] Organizational Communication
- **EDRD*3160** [0.50] International Communication
- **EDRD*4120** [0.50] Leadership Development in Small Organizations
- **HROB*2100** [1.00] Managing People in Organizations
- **HROB*4030** [0.50] Advanced Topics In Human Resource Management
- **HROB*4100** [1.00] Applied Research in Human Resources Management

- **HROB*2150** [0.50] Introduction to Canadian Business Management (B.Comm students may not take this course for credit in their degree program.)
- **PHIL*2100** [0.50] Critical Thinking
- **POLS*2250** [0.50] Public Administration and Governance
- **PSYC*3070** [0.50] Psychology in Human Resource Management
- **PSYC*3080** [0.50] Organizational Psychology
- **SOAN*2040** [0.50] Globalization of Work and Organizations
- **SOAN*2120** [0.50] Introductory Methods

In addition to the five degree-credit courses selected from the above list, 120 hours of leadership practice are required to obtain the undergraduate Certificate in Leadership. The selection and approval of the 120 hours of leadership practice takes place during HROB*2100 (Foundations of Leadership). For more information, please visit the website at: [http://www.leadershipcertificate.com](http://www.leadershipcertificate.com)

Certificate in Public Policy and Administration
The five-course Certificate in Public Policy and Administration is designed to provide a solid base in key concepts and foundations of Canadian government, policy, and administration by bringing together a number of Canadian political science and public policy courses. This certificate will be of interest to individuals currently working or seeking employment in the public sector or quasi-public sector as well as undergraduate students. All six courses in this certificate are also available in distance education format and to earn the Certificate, students will be required to successfully complete five of the six courses (2.50 credits) as follows:

Required Courses
- **POLS*1400** [0.50] Issues in Canadian Politics
- **POLS*2250** [0.50] Public Administration and Governance
- **STAT*2040** [0.50] Canadian Government and Politics
- **STAT*3250** [0.50] Public Policy: Challenges and Prospects
- **STAT*3370** [0.50] Environmental Politics and Governance
- **STAT*3440** [0.50] Corruption, Scandal and Political Ethics

Students who wish to enrol in the Certificate in Public Policy and Administration should contact the Open learning program Counsellor at the Centre for Open Learning and Educational Support (ext. 56050).

Certificate in Scottish Studies
Delivered through distance education, the Certificate in Scottish Studies is focused around the landscape, literature, and history of Scotland and the legacy of Scottish migration on Canada’s development. By bringing together a number of Scottish and Scottish-related courses, the Certificate offers learners a distinctive interdisciplinary program of study. The Certificate in Scottish Studies comprises courses that are offered to both undergraduate students and open learners. To earn the Certificate, students will be required to successfully complete 2.5 credits from the following courses:

Required Courses
- **HIST*2000** [0.50] The British Isles, 1066-1603
- **HIST*4050** [1.00] Topics in Scottish History

One course from:
- **HIST*3030** [0.50] Celtic Britain and Ireland to 1066
- **HIST*3530** [0.50] Celtic Britain and Ireland Since 1603

One course from:
- **ENGL*3360** [0.50] Scottish Literary Cultures
- **ENVS*2050** [0.50] The Landscape of Scotland
- **HIST*3140** [0.50] Witch-hunts and Popular Culture

Students who wish to enrol in the Certificate in Scottish Studies should contact the Open Learning program Counsellor at the Centre for Open Learning and Educational Support (ext. 56050).

For more information, please visit the website at: [http://www.scottishcertificate.com](http://www.scottishcertificate.com)

Diploma in Applied Statistics
The Diploma in Applied Statistics is a program offered by the Department of Mathematics and Statistics, which seeks to give students of the Applied Sciences a technical competency in the use and application of Statistics.

The program is intended mainly for those whose primary area of expertise is not in Statistics, but who feel the need to be able to use modern statistical techniques. This program seeks to fill a need of scientists to reach a useful level of competency in the use of statistical methodology.

Diploma Requirements
The program consists of 5.00 credits chosen from the following list. It is important to take into account the necessary prerequisites when determining the sequence in which the courses are taken. Consult an advisor from the department for assistance.

- **MATH*2080** [0.50] Elements of Calculus II
- **MATH*2150** [0.50] Applied Matrix Algebra
- **STAT*2040** [0.50] Statistics I
- **STAT*2050** [0.50] Statistics II
- **STAT*3100** [0.50] Introductory Mathematical Statistics I

For more information, please visit the website at: [http://www.stat.science.uoguelph.ca](http://www.stat.science.uoguelph.ca)
Co-operative Education

The Co-operative Education option is offered in 38 majors. Co-op, a form of work integrated learning, is a model of education that integrates a student’s academic learning with periods of paid workplace learning in fields relevant to the student’s academic and personal/professional goals. The academic and work schedules will vary with degree program and major. The first co-op work term is scheduled after the third or fourth academic semester, providing an academic foundation on which to build the work experience. Co-op is delivered in concert with employer partners, and constitutes part of the student’s formal curriculum. Job opportunities are available within Ontario, across Canada and, in some cases, international. Admission can occur directly into semester 1 from high school, or in-course (but not normally beyond Academic Semester 2). Co-operative Education is also available to international students.

For further details refer to information on Co-operative Education in Section 8–Degree Programs. Course requirements and academic/work sequences for specific majors are listed under the appropriate degree program in Section 8–Degree Programs.

Co-operative Education Guidelines and Procedures

The following guidelines and procedures support the implementation of the “Policy on Co-operative Education Programming in Undergraduate Degree Programs”, approved by Senate on June 4, 2012. In the event of a discrepancy between the Policy and these Guidelines, the Policy will apply.

The following definitions shall apply in these guidelines and procedures:

• “Co-operative Education” is defined by the University of Guelph as a collaborative partnership between the University and workplace employers who share a commitment to the learning objectives and outcomes of the co-operative education program as expressed through experiential education opportunities and the integration of workplace and academic learning.

• “Co-op Program” (Co-operative Education Programming): Co-op education programming is offered in two distinct formats, as defined by CAPCE:
  i. “Co-op Option” (Co-operative Education Option): A co-op option may be offered within an established degree program and major. The Schedule of Studies includes semesters of academic study sequenced with semesters of on-site approved paid work terms.
  ii. “Co-op Internship” (Co-operative Education Internship) is defined as an on-site approved paid work experience, normally 12 to 16 months in length commencing once 50% of the academic program is completed.

• “CECS” means the Co-operative Education & Career Services department at the University of Guelph. CECS is the unit designated to coordinate and support co-operative education programming by providing administrative assistance to co-op students, co-op employers, and co-op faculty advisors.

• “Co-op Co-ordinator” means the staff person assigned by CECS to provide support for a co-op education program through securing appropriate work term opportunities, providing orientation, advice and guidance to co-op students, and, in partnership with the Co-op Employer, monitoring student progress over the co-op work term.

• “Co-op Work Term” is defined as the designated period of time that a co-op student is engaged in an on-site approved paid work experience.

• “Co-op Employer” means the designated supervisor of a student who is participating in a co-op work term.

• “Work Term Report” is a report written by the co-op student following the completion of a Co-op Work Term and submitted to the Co-op Faculty Advisor for evaluation.

• “Work Term Performance Evaluation” is the formal evaluation of the student by the Co-op employer upon completion of the Co-op Work Term.

• “Co-op Faculty Advisor” is defined as the faculty member assigned by the department or school to provide academic advice and guidance to students enrolled in the co-op program, provide advice and guidelines on the development of the student’s Work Term Report, and evaluates the student’s Work Term Report.

• “Co-op Certification” is the official recognition of a co-op student’s satisfactory completion of all co-operative education requirements and graduation of their program, whereby they are awarded a co-operative education certificate.

Guidelines for the Establishment of Co-op Programs:

Co-operative Education Options shall be established according to the criteria listed under section 6.2 of the Policy on Co-operative Education Programming in Undergraduate Degree Programs at the University of Guelph. The roles and responsibilities of the co-operative education program partners are outlined under the section “xxx.

Schedule of Studies

a. Every Co-op Option Schedule of Studies shall include the following features:

• A minimum of three Co-op Work Terms to a maximum of five Co-op Work Terms shall be sequenced within the Schedule of Studies;

• At least one Co-op Work Term shall occur in each of the Summer, Fall, and Winter semesters;

• No more than two Co-op Work Terms shall commence in a Summer semester;

• The first Co-op Work Term shall be scheduled no sooner than the second Winter semester of the program;

• No more than five full-time academic semesters shall be completed before the first Co-op Work Term;

• The Co-op Schedule of Studies shall not finish with a Co-op Work Term semester;

• The Schedule of Studies for a Co-op Option shall not exceed eight academic semesters, a schedule that is no longer than five years;

• At least thirty percent of the Schedule of Studies for the Co-op Option shall be comprised of semesters in Work Terms;

• It is the responsibility of the academic department in conjunction with CECS to design the Co-op Option Schedule of Studies taking into account that sufficient and appropriate courses are offered in the academic semesters on campus so that Co-op students are available year-round to employers participating in the program.

b. Co-op Internships:

• Co-op Internships normally commence once 50% of the academic program is complete and are 12 to 16 months in length.

c. The work term requirements:

• Each work term is developed and/or approved by CECS as a suitable learning opportunity;

• The student is engaged in productive work rather than merely observing;

• The student receives remuneration for the work performed;

• Work term opportunities without traditional remuneration must be approved by CECS;

• The student’s progress on the work term is monitored by CECS;

• The student’s performance on the job is supervised and formally evaluated by the student’s co-operative employer;

• Student’s must complete a work term report and satisfactorily pass the academic requirements governing this assessment.

Admissions

a. Normally the minimum admission average required for students to be considered for admission to a Co-op Option is 80%. Exact cut-offs are determined on the basis on the quantity and quality of applications received and the number of places available in the program. Students not admitted to co-op will be automatically considered for the regular program. The number of admission offers to the Co-op Option will depend upon the capacity determined each year by the Co-operative Program Co-ordinating Committee.

b. University of Guelph students and external students to the University may be admitted to the Co-op Option through transfer to a Co-op Option if there is capacity available in the specified program. The minimum admissions average for internal transfer is 70% cumulative average in the first two full time semesters. Other conditions and application deadlines may apply. Students should consult the Program Counsellor for information on internal transfer.

Continuation of Study

a. It is mandatory that co-op students be registered full-time for the duration of their program as outlined in the schedule of studies listed in the Undergraduate Calendar.

b. Students are required to meet a continuation requirement at the end of semester two. Students will be allowed to continue in the co-op program only if their cumulative average is 70% or higher after their first two full-time academic semesters.

c. Students are required to complete and pass the mandatory Introduction to Co-operative Education (COOP *1100) non-credit course as the pre-requisite for the first employment process.

d. Students are required to follow the academic and work sequence as outlined in the Undergraduate Calendar.

e. Students who receive a Marginal work performance evaluation will be required to meet with their Co-op Co-ordinator. Students who receive two Marginal work performance evaluations will be withdrawn from co-op and transferred to the regular academic program. The grade as well as the phrase “Req to Withdraw from Co-op” will appear on the Official Transcript.
f. A student who receives an Unsatisfactory work term report will be required to withdraw from co-op. The grade as well as the phrase “Req to Withdraw from Co-op” will appear on the Official Transcript.

g. A student who does not complete and submit the Work Term Report by the 5th class day of the next semester may not register in the following work term.

h. A student on academic probation shall not be eligible to participate in the Work Term process and will not be eligible to commence a Co-op Work Term.

i. The co-op employment process is competitive and while CECS makes every effort to assist students in gaining employment, there is no guarantee that every student will become employed through the employment process.

Graduation Requirements

Students are eligible to graduate with the “Co-op Certification” if they meet the following conditions:

a. Meet the academic conditions for graduation for their degree program as outlined in the Undergraduate Calendar.

b. Receive evaluations of “Good” or higher in all but one of the Work Performance Evaluations.

c. Receive evaluations of “Satisfactory” or higher in all Work Report Evaluations.

Students wanting to graduate with less than the required number of work terms must contact their Co-op Co-ordinator with the request and it will be brought to the Director CECS for final approval.

Students who do not achieve the requirements for continuation of study or graduation in the co-op program may appeal the decision (see Chapter VIII, Academic Consideration).

Roles and Responsibilities of Co-operative Education Program Partners

The University of Guelph’s co-operative education program requires a collaborative approach that engages all partners in the process. The success of the co-op programs at Guelph is dependent upon a commitment by all the partners involved.

Students

Student success in a co-op option requires commitment, students are required to read and understand the Policy Agreement for Undergraduate Student Involvement in Co-operative Education

There is no guarantee that all students enrolled in co-op will have a work term. They must take responsibility for the employment process. This includes:

• Meeting the co-op continuation of study requirements;
• Successfully completing the COOP*1100 preparatory course; and,
• Understanding the competitiveness of the co-op application process and their responsibilities within the process.

Students must also take responsibility for success in the workplace. As such, students must:

• Adequately prepare for the work term and represent themselves and the University in the workplace;
• Set learning goals with the supervisor early in the term and work toward achieving those goals;
• Request a formal performance evaluation at the end of the term;
• Prepare a work term report for the Co-op Faculty Advisor;
• Successfully complete the requirements of the work terms; and
• Inform CECS on matters affecting their status.

The Academic Department

The Academic Department is responsible for all academic components of the co-op program including the offering of courses to support the co-op option and the evaluation of the co-op work term report. A Co-op Faculty Advisor is provided for each co-op program.

The role of the Co-op Faculty Advisor is to support the student on the academic requirements of the program. The responsibilities of the Co-op Faculty Advisor are to:

• Assist students in academic/work sequences and course selection;
• Provide detailed guidelines on the writing and marking of work term reports;
• Advise the student of appropriate work term report topics, supporting the process, grading of the work report and follow-up discussion with the student; and
• Undertake administrative tasks in support of the educational program, including management of the unit’s co-op program, supporting the development of materials about the program (where required), and establishing procedures for the co-op option within the department.

Co-operative Education & Career Services (CECS)

The role of CECS is to support all of the administrative functions related to the work term experience. Responsibilities of CECS include:

• Following the required operational guidelines as an accredited program of the Canadian Association for Co-operative Education (CAUCE);
• Preparing students for the co-op experience;
• Co-ordinating job development relevant to the academic curriculum and facilitating the employment process;
• Ensuring the quality of the job development effort;
• Providing all the administrative support required for the smooth functioning of the university’s co-operative education program;
• Operating the competitive employment processes including co-op interviews and employer information sessions, panels and informational interviews; Maintaining all employer, department and student data;
• Processing all clerical and administrative matters relating to the relationship between employer and institution;
• Building employer relationships and provide students with a range of suitable employment opportunities, and working closely in conjunction with the academic unit and Alumni Affairs and Development;
• Offering the COOP *1100 Introduction to Co-operative Education course the semester prior to the student employment process;
• Providing student support for resume, cover letter and interview preparation as well as career guidance where needed;
• Ensuring that the employer maintains the appropriate educational quality in the work term experience provided to the student;
• Working with the Registrar to ensure a reasonable number of students are admitted into the program;
• Ensuring that the academic/work program schedules provide year round availability of work terms to meet employer needs; and
• Assigning Co-op Co-ordinators to co-operative education options.

Co-op Co-ordinator

The role of the Co-op Co-ordinator is to work within specific programs to support the work-term process. Responsibilities of the Co-op Co-ordinator are to:

• Develop jobs in specific discipline areas;
• Advise students in regard to their activities in the employment process and on the work term;
• Market the co-op program to employers and obtaining work term commitments;
• Prepare co-op students for their involvement in co-operative education, and educate students concerning employer and performance expectations;
• Actively monitor the work term maintaining contact with the student during the work term;
• Be available any time during the work term to respond to student or employer inquiries;
• Conduct a work term site visit with the student and supervisor;
• Conduct pre- and post-work term student advisement and debriefing;
• Manage the student’s file and ensuring complete institutional records on each student;
• Undertake administrative tasks in support of the co-op program, including consultation with Co-op Faculty Advisor on policy and procedure aspects of the program; and
• Approve special situations where students may complete a work term without traditional remuneration.

Co-op Program Coordinating Committee (CPCC)

The role of the CPCC is to provide administrative oversight and advice as it relates to the University’s co-op programs. Responsibilities of CPCC include:

• Ensure that all co-op programs conform to the established policy and standard practices;
• Co-ordinate co-op option schedule of studies to support the maximum availability of students in all three semesters;
• Review new program proposals to confirm that sufficient resources are available to mount a quality co-op program, including the assignment of a Co-op Coordinator and Co-op Faculty Advisor for each stream; and
• Monitor co-programs to support high quality program delivery.

Employer

Good quality employers who understand the educational focus of the co-op programs are critical to the program. Responsibilities of the employer are to:

• Provide co-op work term job opportunities that meet the university’s educational objectives;
• Provide the university with an accurate job description along with any available company information;
• Conduct interviews and select the best candidate;
• Pay competitive wages in accordance with the student’s work term level and academic level;
• Provide safe employment including WSIB and liability insurance coverage for the duration of the employment period; and
• Comply with the Provincial Employment Standards Act.
During the work term:

• Orient the student to the organization, workplace protocols and the job during the first few weeks of the work term;
• Supervise the student and provide guidance when the student is setting learning goals at the start of the work term with a review mid-term and at the completion of the work term;
• Provide performance feedback to the student throughout the term and keeping the Co-op Coordinator current on any changes in the student’s performance;
• Meet with the Co-op Co-ordinator during the work term visit and providing feedback concerning the student’s performance and if there are concerns maintaining communication with the Co-op Co-ordinator;
• Provide career information and guidance as appropriate;
• Complete a work term performance evaluation form and exit interview for the student at the conclusion of the work term; and
• Assist the student with the selection of a topic for a work term report and providing comments on the final work term report if appropriate.

Distance Education

The Distance Education program, administered by the Centre for Open Learning and Educational Support, supports academic departments in offering degree credit courses to students who choose to study outside the traditional classroom environment. Courses may come with a variety of learning resources, including: manuals, CDs, DVDs etc., depending on the nature of the course. As well, courses incorporate online discussions, email, computer-based quizzes, and the use of the Internet. Distance education provides a contemporary means through which the University of Guelph continues its tradition of outreach and open learning opportunities.

Students may take distance education courses for a variety of reasons, including: to have flexibility in designing their own study schedules; to avoid timetable conflicts; to acquire credits while away on summer break or on a co-op job placement; to take courses unavailable in class in a given semester; to learn in an interactive online environment.

The University of Guelph recognizes the importance of distance learning and is committed to providing opportunities for the off-campus learner. A wide range of subject areas and course levels is available.

The following is a list of the courses that are offered in the distance format. When selecting these courses, section DE must be specified to indicate the distance education offering. Please consult Section XII—Course Descriptions. Because additional courses are constantly being developed, please consult the Centre for Open Learning and Educational Support, 160 Johnston Hall, 519-767-5600, email: info@coles.uoguelph.ca for an updated listing of courses available by distance education and when they are scheduled to be offered. Course listings are also available at www.coles.uoguelph.ca.

EDRD*3160*DE [0.50] International Communication
EDRD*3450*DE [0.50] Watershed Planning Practice
EDRD*3500*DE [0.50] Recreation and Tourism Planning
EDRD*4010*DE [0.50] Tourism Planning in the Less Developed World
EDRD*4120*DE [0.50] Leadership Development in Small Organizations
EDRD*4500*DE [1.00] Planning Industrial Ecology: Design for Sustainability
ENGL*1200*DE [0.50] Reading the Contemporary World
ENGL*2640*DE [0.50] Culture, Location, Identity: Minoritized Literatures in Canada and Beyond
ENGL*2740*DE [0.50] Children’s Literature
ENGL*3360*DE [0.50] Scottish Literary Cultures
ENVS*1060*DE [0.50] Principles of Geology
ENVS*2050*DE [0.50] The Landscape of Scotland
ENVS*2060*DE [0.50] Soil Science
ENVS*2070*DE [0.50] Environmental Perspectives and Human Choices I
ENVS*2120*DE [0.50] Introduction to Environmental Stewardship
ENVS*2210*DE [0.50] Introductory Apiculture
ENVS*2250*DE [0.50] Geology of Natural Disasters
ENVS*3000*DE [0.50] Nature Interpretation
ENVS*3020*DE [0.50] Pesticides and the Environment
ENVS*3040*DE [0.50] Natural Chemicals in the Environment
ENVS*3080*DE [0.50] Soil and Water Conservation
ENVS*3280*DE [0.50] Environmental Perspectives and Human Choices II
EURO*1050*DE [0.50] The Emergence of a United Europe
FOOD*2010*DE [0.50] Principles of Food Science
FOOD*2400*DE [0.50] Introduction to Food Chemistry
FOOD*2410*DE [0.50] Introduction to Food Processing
FOOD*2420*DE [0.50] Introduction to Food Microbiology
FOOD*3430*DE [0.50] Introduction to Food Analysis
FOOD*4310*DE [0.50] Food Safety Management Systems
FREN*1090*DE [0.50] Basic French: Reading
FREN*1100*DE [0.50] Basic French: Listening
FREN*1120*DE [0.50] Basic French: Writing
FREN*2020*DE [0.50] France: Literature and Society
FREN*2500*DE [0.50] French Translation I
FREN*3530*DE [0.50] Business French
FRHD*1010*DE [0.50] Human Development
FRHD*1020*DE [0.50] Couple and Family Relationships
FRHD*2060*DE [0.50] Adult Development and Aging
FRHD*2100*DE [0.50] Development of Human Sexuality
FRHD*2110*DE [0.50] Exceptional Children and Youth
FRHD*2260*DE [0.50] Infant Development
FRHD*2270*DE [0.50] Development in Early and Middle Childhood
FRHD*2280*DE [0.50] Adolescent Development
FRHD*3190*DE [0.50] Administration of Programs for Children
GEOG*1200*DE [0.50] Society and Space
GEOG*1220*DE [0.50] Human Impact on the Environment
GEOG*1300*DE [0.50] Introduction to the Biophysical Environment
GEOG*2210*DE [0.50] Environment and Resources
GEOG*2510*DE [0.50] Canada: A Regional Synthesis
GEOG*3020*DE [0.50] Global Environmental Change
GEOG*3210*DE [0.50] Management of the Biophysical Environment
GEOG*3490*DE [0.50] Tourism and Environment
HISP*1100*DE [0.50] Introductory Spanish I
HISP*1110*DE [0.50] Introductory Spanish II
HIST*1150*DE [0.50] The Modern World
HIST*2000*DE [0.50] The British Isles, 1066-1603
HIST*2040*DE [0.50] War and Society
HIST*2070*DE [0.50] World Religions in Historical Perspective
HIST*2250*DE [0.50] Environment and History
HIST*2260*DE [0.50] Religion and Society
HIST*2450*DE [0.50] The Practising Historian
HIST*2610*DE [0.50] Contemporary Canadian Issues
HIST*3020*DE [0.50] Sexuality and Gender in History
HIST*3030*DE [0.50] Celtic Britain and Ireland to 1066
HIST*3140*DE [0.50] Witch-hunts and Popular Culture
HIST*3530*DE [0.50] Celtic Britain and Ireland Since 1603
HIST*3540*DE [0.50] World War II
HIST*4050*DE [1.00] Topics in Scottish History
HORT*1120*DE [0.50] Grape and Wine Science
HORT*3340*DE [0.50] Wine-Grape Culture
HROB*2010*DE [0.50] Foundations of Leadership
HROB*4010*DE [0.50] Leadership Capstone
HROB*4060*DE [0.50] Human Resources Planning
HTM*2030*DE [0.50] Control Systems in the Hospitality Industry
HTM*3180*DE [0.50] Casino Operations Management
HTM*3780*DE [0.50] Economics of Food Usage

2012-2013 Undergraduate Calendar

Last Revision: Oct. 19, 2012
XI. Special Study Opportunities, General Studies

Note: Please check with the Centre for Open Learning and Educational Support regarding the technology and resource requirements (e.g., computer, internet, DVD player, etc.) for the specific course(s) in which you are interested.

The courses have been designed and written by experts to meet rigorous standards. Clusters of courses are offered from selected areas of specialization within the University.

The Diploma in Applied Statistics, the Certificate in Business, the Certificate in Communication Process, the Certificate in Food Science, the Certificate in Environmental Citizenship, the Certificate in Environmental Conservation, the Certificate in Hospitality Studies, the Certificate in Leadership, and the Certificate in Scottish Studies are also offered in the distance education mode in whole or in part (see Certificates and Diplomas in this section for further information).

General Studies

The objective of the General Studies program is to provide mature students with the opportunity to take university courses before registering in a specific degree program or to take university courses for continued learning with no immediate intention of registering in a degree program. The General Studies program does not lead towards a specific undergraduate degree at the University of Guelph. Initially, students register for part time studies only.

Academic Counselling

General Studies students can obtain counselling for selecting courses, and planning their future program from the B.A. Counselling Office located in Room 130 MacKinnon Building. Prospective students should contact the Admissions Section of the Office of Registrarial Services.

Financial Assistance

Students registered in 3 or more courses of the General Studies program are eligible to apply to the Ontario Student Assistance Program (OSAP) if an Ontario resident. Students who are residents of other provinces must apply to their home province for financial assistance. General Studies students are eligible to apply for OSAP assistance for a maximum of two semesters. General Studies students who transfer to a degree program may continue to apply for OSAP.

Schedule of Studies

1. Students may take any undergraduate course offered by the University, as long as any stated prerequisites are met or the approval of the instructor is obtained.
2. Students may take Associate Diploma courses with the approval of the Director of the Associate Diploma program.
3. Students will not normally be eligible to continue in the General Studies program after enrolment in 20 courses.
4. The grade assigned for each course will become part of the student's University academic record.
5. Students who register in the General Studies program and who subsequently apply for transfer to a degree or diploma program, will be required to meet admission requirements for that program, and credit granted for courses taken in the General Studies program will be subject to the regulations pertaining to that program.

Tuition Fees

Students are advised to refer to Section VI--Schedule of Fees.

Undergraduate Regulations

Students are referred to Section VIII--Undergraduate Degree Regulations for additional information regarding registration, course selection, withdrawal from study, continuation of study, examination policy and requests for academic consideration.

Graduate Studies

The University of Guelph offers graduate programs in most departments and schools. These post-baccalaureate programs offer opportunities for personal, academic and professional growth. Students with a 70% average or higher should consider and investigate these options, beginning no later than their third undergraduate year. Decisions regarding the desired area of study and pursuit of sponsorship support require forethought and planning. Information, and counselling are available through the graduate coordinators of each department/school. Applications are made on-line and accessed through Graduate Studies website at http://www.uoguelph.ca/registrat/graduatesudies/index.cfm?apply. Students are also welcome to visit the Office of Graduate Program Services, Level 3, University Centre.

The University of Guelph offers opportunities for qualified students to do graduate work leading to the Master of Arts (M.A.), Master of Applied Science (M.A.Sc.), Master of Science (M.Sc.), Master of Landscape Architecture (M.L.A.), Master of Applied Nutrition (M.A.N.), Master of Bioinformatics (M.Binf.), Master of Business Administration (M.B.A.), Master of Engineering (M.Eng.), Master of Environmental Sciences (MES), Master of Fine Art (M.F.A.), Master of Science in Aquaculture (M.Sc. Aqu), Master of Science in Planning (M.Plan), Master of Public Health (M.P.H.), Doctor of Philosophy (Ph.D.), and Doctor of Veterinary Science (D.V.Sc.) degrees.
Interdisciplinary Studies

The University of Guelph offers many interdisciplinary programs that cross departmental and college boundaries. In addition, specific courses and specializations have been modelled on an interdisciplinary approach to the topic or subject area.

Courses with an interdisciplinary approach and content are listed in Section XII under the following headings: Humanities, Physical Science, and Social Science as well as Interdisciplinary University Courses.

The following list of specializations is not intended to represent all the university's interdisciplinary initiatives. Instead it identifies those specializations that involve a significant degree of collaboration between departments or colleges. For further details, refer to the appropriate undergraduate degree program information in Section IX.

Bachelor of Arts

Criminal Justice and Public Policy
Environmental Studies (Minor)
European Studies
Information Systems & Human Behaviour
International Development

Bachelor of Arts and Sciences

The University of Guelph offers an 8 semester (20.00 credits) honours program leading to a Bachelor of Arts and Sciences (B.A.S.) degree.

The Bachelor of Arts & Sciences program is designed for students who are motivated equally by the study of Arts/Social Sciences and the Sciences, and who find challenge and satisfaction in testing the traditional boundaries of study through undergraduate level interdisciplinary work. The program meets these objectives through a unique structure that accredits students in an Arts/Social Sciences core, a Sciences core, a Subject Area core of interdisciplinary humanities and sciences courses (ASCI*), and a minor in each of the Arts/Social Sciences and the Sciences (see below for choices of minors). The structure of the program ensures disciplinary rigour and breadth through completion of core requirements for a B.A.S. degree, concentration in two distinct minors, and concentration of learning in an academic cohort of B.A.S. students through the interdisciplinary ASCI courses in the B.A.S. core. This core is open only to students in the B.A.S. program. For more information please see: [http://www.uoguelph.ca/bas/](http://www.uoguelph.ca/bas/)

Bachelor of Commerce

Agricultural Business
Hotel and Food Administration
Human Resources Management
Management Economics in Industry & Finance
Marketing Management
Public Management
Tourism Management

Bachelor of Science in Environmental Sciences

Open Learning

The University of Guelph serves the learning needs of people of all ages whose educational requirements may not match the program structure or services available through full-time undergraduate study. The adoption of the philosophy of lifelong learning, changes in the demographic characteristics of our communities, the explosion of new knowledge, and the effect of rapid technological advances on professional competence are major factors underlying the University's commitment towards alternative approaches to providing education through open learning.

The Centre for Open Learning and Educational Support

The Centre for Open Learning and Educational Support is the institutional focus for distance education, continuing education, and the Open Learning program. As such, the Centre for Open Learning and Educational Support supports departments in the development and delivery of open learning activities. Courses and programs cover a broad spectrum of learning needs which include professional updating programs and general interest/knowledge enhancing courses.

The Open Learning program

The Open Learning program is an open admission distance-only part-time mode of study that provides access to degree-credit university courses for individuals who wish to study independently but are not interested in pursuing a degree at the University of Guelph at the present time. You may register in the Open Learning program, even if you are registered at another post-secondary educational institution. The Open Learning program extends the academic resources of the University to those interested in personal enrichment, professional updating, or eventual application to a degree program.

Open Learning program students must complete the same assignments and examinations as those in degree programs and are evaluated using the same standards. Upon successful completion of a course, learners receive the same credit weight for courses as would apply to courses taken within the degree program.

Continuing Education Option

Those not interested in receiving degree credit for courses may register as continuing education students. Learners taking courses in this way may not be required to complete assignments or related exams.

Further information is available from the Centre for Open Learning and Educational Support, 160 Johnston Hall, by email: info@coles.uoguelph.ca, by phone 519-767-5000 or at [www.coles.uoguelph.ca](http://www.coles.uoguelph.ca). This undergraduate program is approved by the University of Guelph.

Guaranteed Admission to a B.A. Program

Open Learning program students who have no previous post-secondary experience and have completed four courses, (2.00 credits), with a 70% minimum cumulative average may transfer into the B.A. Program at the University of Guelph.

Applicants are advised to complete two courses (1.00 credit) from the College of Arts and two courses (1.00 credit) in the Social Sciences.

Guaranteed Admission to the B.Comm. Program

Open Learning program students with no previous post-secondary education will be offered guaranteed admission to the Bachelor of Commerce (B.Comm.) degree program under the following conditions.

1. Applicants must satisfy the English proficiency requirements (see the Undergraduate Calendar, Section IV Admission, English Proficiency).
2. Successful completion of four-degree-level courses (2.00 credits) with a cumulative average of 70% or above in at most 6 course (3.00 credit) attempts. The four courses (2.00 credits) used in the calculation of the cumulative average will include any degree-level courses used to meet the English and mathematics requirements and must satisfy the following:
   a. at least 1.00 credits must be from arts and social sciences;
   b. no more than 1.00 credits from mathematics and statistics combined may be used to calculate the cumulative average.
3. Applicants must satisfy the following English and mathematics requirements:

   **English Requirement**
   A grade of 75% or higher in English 12U or the successful completion of one course (0.50 credits) from:
   - ENGL*1200, EURO*1050, GEOG*1220, HIST*1150, HIST*2000, HIST*2040, HIST*2070, HIST*2260, HIST*2610, HIST*2830, POLS*1400, SOC*1100, WMST*1000, UNIV*2000

   **Mathematics Requirement**
   A grade of 75% or higher in the 12U mathematics course(s) required for the applicant's intended major or the successful completion of MATH*1000/MATH*1030.

Open Learning program Certificates and Diplomas

Certificate in Business
Certificate in Communication Process: Bridging Theory and Practice
Certificate in Environmental Citizenship
Certificate in Environmental Conservation
Certificate in Food Science
Certificate in Hospitality Studies
Certificate in Leadership
Certificate in Public Policy and Administration
Certificate in Scottish Studies

(Refer to Certificates & Diplomas in this section for descriptions or contact the Centre for Open Learning and Educational Support.)

Open Learning program Courses*

Please refer to Distance Education in this section for a listing of courses offered through the Open Learning program.

*please check with the Centre for Open Learning and Educational Support regarding the technology and resource requirements (e.g. computer, internet, DVD, etc.) for the specific course(s) in which you are interested.

Open Learning Scholarships/Bursaries

**Open Learning Bursaries**

Established by faculty, staff and friends of Open Learning. These funds are intended to provide support for non-degree students that are enrolled in an Open Learning Program (courses, certificates, and diplomas) in need of financial assistance. More information can be found at: [http://www.coles.uoguelph.ca/bursary/](http://www.coles.uoguelph.ca/bursary/)

**Qualification(s):** Canadian citizens or permanent residents with the greatest financial need.

Last Revision: Oct. 19, 2012
Equine Science Certificate Scholarship

This scholarship program provides the value of tuition for one course in the Equine Science Certificate program. The scholarship is available to Open Learning students who have completed two courses in the Equine Science Certificate Program with a minimum cumulative average of 80%. Apply to Senior Manager, Equine Guelph by February 12 with an essay of no more than two pages on the value of the program and its impact on the well-being of the student's horse. This award may be held only once.

Virginia L. Gray Memorial Bursary

Virginia L. Gray dedicated 38 years of her life to the University community until her retirement in 2007 as Director, Office of Open Learning. Virginia’s innovative approach to education positioned the University of Guelph to become an international leader in continuing and distance education. Virginia was committed to eliminating barriers to education and to supporting students who had a desire to advance their academic and career goals through education. Family, friends and colleagues of Virginia Gray have established and contributed to the Virginia L. Gray Memorial Bursary as a tribute to her exemplary work. Students interested in enrolling in an Centre for Open Learning and Educational Support continuing education or Open Learning program course are eligible to apply. Applicants must be Canadian citizens or Permanent residents. Applications will be reviewed on January 30th and July 30th for upcoming course offerings. Applications must include a letter outlining financial need and academic goals, and must include supporting documentation. Students may receive the bursary only once.

Prof. H.J. Malik Statistics Prize

This $150 prize is provided in honour of H.J. Malik, Professor Emeritus in the Department of Mathematics and Statistics, by family, colleagues and friends. Application not required. Open Learning program distance education student who has completed the course STAT*2060, Statistics for Business Decisions, with the highest attained grade over 80% in the previous year. All Open Learning program students who complete this course in the previous spring, fall or winter semesters will automatically be considered the following May.

Distance Education

The Centre for Open Learning and Educational Support facilitates the delivery of degree credit courses to students who are typically off-campus or wish to take distance courses in order to accommodate their schedules. The Centre for Open Learning and Educational Support assists in course development and preparation and is the focal point of this activity by providing information, student support, and administration. Please refer to the Distance Education heading in this section for the listing of courses offered through the distance format. Calendars and brochures outlining complete details of activities are available from the Centre for Open Learning and Educational Support, Johnston Hall Room 160, 519-767-5000, info@coles.uoguelph.ca, or at www.coles.uoguelph.ca

Continuing Education

The Centre for Open Learning and Educational Support annually offers over 100 professional development programs, courses, conferences, and certificates in collaboration with academic departments and/or professional organizations. For detailed information on learning opportunities offered by the Centre for Open Learning and Educational Support contact us at tel: 519-767-5000; fax 519 767-1114; email: info@coles.uoguelph.ca; website: www.coles.uoguelph.ca; or visit us in Johnston Hall Room 160.

Certificate in Coaching for Leadership

Employee engagement and performance management are essential drivers in high performing organizations. The Coaching for Leadership program focuses on developing your leadership skills using the coach approach.

Courses will examine the necessary components of a coaching culture and assist in developing leadership skills in an online learning environment. Participants will learn about performance management and how to manage conflict to build high trust relationships. The program is focused on leadership development using coaching and communication to engage employees to achieve organizational excellence.

The program consists of four online courses. The courses have been designed to be completed in sequence. Each course is eight (8) weeks in duration resulting in approximately 30 contact hours. There are no formal admission requirements for the program however the course has been designed for senior leaders, managers, supervisors, human resource professionals, project managers and organizational consultants or anyone in a leadership role with direct reports. Participants can complete the certificate program within approximately one (1) year.

Required Courses

- Creating a Foundation for Leadership Coaching
- Performance Management Fundamentals
- The Coach Approach
- Harness Conflict and Build Trust

To learn more, please visit the website at: http://www.CoachingforLeadership.ca or contact the Centre for Open Learning and Educational Support by email at info.coles.uoguelph.ca or call 519-767-5000.

Certificate In Couple & Family Therapy Studies (co-sponsored by the Ontario Association for Marriage and Family Therapy)

The Certificate in Couple and Family Therapy Studies is designed to provide practising therapists with specialized training and updating in the needs, problems and changing patterns of couple and family relationships. Systems theory is the primary, although not the only, theoretical orientation within the program. Attention to issues of gender, race, class, ethnicity and culture underlies all aspects of the program. Program faculty are clinical members of the American Association for Marriage and Family Therapy (AAMFT) and AAMFT-approved supervisors.

Courses in this program are designed to meet the education requirements for Clinical Membership in the American Association for Marriage and Family Therapy. All courses are delivered at a level of rigour equivalent to that of a Master's degree and require completion of a formal evaluation component, marked according to University of Guelph grading standards. Individuals successfully completing the required course of study will receive the Certificate in Couple and Family Therapy Studies from the University of Guelph and the Ontario Association for Marriage and Family Therapy. While completion of all six courses in the certificate program is encouraged, students are welcome to take courses for general interest or specific upgrading, provided they have adequate background and/or preparation. It is strongly recommended that students pursue a concurrent program of clinical practice and supervision. Prerequisite: A Bachelor's degree.

Required Courses:

- Theories & Methods of Family Therapy: Foundations of the Field
- Theories & Methods: Post-Modern Models
- Theories & Methods of Couple Therapy

Elective Courses (Choose 3):

- Change Strategies in Therapy
- Family Therapy and Mental Health
- Reflections on Stress, Trauma and Loss
- Research in Couple and Family Therapy
- Systemic Approaches with the Addicted Client: Assessment and Intervention
- Sex Therapy Training Program
- Transition: The Human Life Cycle
- Sexual Attitudes Reassessment

For details and to apply visit http://www.couplefamilytherapystudies.ca.

Certificate in Real Estate Appraisal

The post graduate Certificate in Real Estate Appraisal is designed to prepare university graduates and undergraduates with a business focus for a career in real property valuation. Accredited with the Appraisal Institute of Canada learners can use this program to meet most of the educational requirements for the AACI designation.

Required Courses:

- Introduction to Real Estate Appraisal
- Urban Economics
- Real Estate Investment Analysis and Advanced Income Appraisal
- Commercial Property Analysis
- Case Studies in Appraisal I
- Case Studies in Appraisal II

Course of Study

The six courses will provide learners with a solid foundation in real estate valuation principles and their application in the appraisal process. Each course is six weeks in length with learners attending four full day classroom sessions on alternate Saturdays. An online discussion board will provide students with instructor support and opportunities for class discussion between the face-to-face sessions.

The courses are held consecutively and the certificate can be completed in less than 12 months.

For more information visit the program website www.realestateappraisal.ca or contact the Centre for Open Learning and Educational Support at 519-767-5000 or info@coles.uoguelph.ca

Diploma in Human Resources Management

Human resources management is critical to achieving organizational effectiveness in today's business environment. Participants will learn how to leverage and develop their skills to achieve creative and innovative organizational goals.

The Diploma in Human Resources Management program curriculum links theory with practice in order to develop HR core competencies and business acumen of a Certified Human Resource Professional. In order to receive your Diploma in Human Resources Management you must complete 10 courses within the program which include nine Human Resources Professional Association (HRPA) approved courses and one online distance education elective. There are no admission requirements for individuals interested in registering for most of the courses. Courses are offered in the fall, winter and summer semesters.

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Required Courses:
- Human Resources Administration
- Organization and Management
- Finance and Accounting Concepts
- Occupational Health and Safety
- Salary Administration and Benefits
- Training and Development
- Labour-Management Relations
- Human Resource Planning
- Recruitment and Selection

One subject-appropriate Open Learning program elective course offered through distance education. For a list of subject-appropriate elective courses, please visit the website at: [http://www/hrdiploma.com](http://www.hrdiploma.com). Elective course must be pre-approved by the Manager, Program Development.

For more information and to apply to this program, visit [http://www.hrdiploma.com](http://www.hrdiploma.com).

**English Language Certificate Program**
The English Language Certificate Program is an intensive academic English program designed to prepare ESL students aged 18 and over for academic study at the undergraduate and graduate level. Classes in grammar, reading, writing, listening and speaking help students achieve the advanced level English skill needed to be successful in academic studies. Students who successfully complete the Advanced level earn the University of Guelph Certificate of English Proficiency, which meets the English proficiency requirements for entry into undergraduate and graduate studies at the University of Guelph and the University of Guelph-Humber. Applicants are encouraged to have an intermediate English skill level, and an academic goal to study at a university.

**Equine Online Certificate Programs**

**Equine Science Certificate**
The Certificate consists of six distance education courses taken online. This program is designed to provide horse owners and those working in the equine industry with evidence-based knowledge to improve the health and performance of horses in their care.

**Required Courses:**
- Management of the Equine Environment
- Health & Disease Prevention
- Functional Anatomy
- Equine Nutrition

**Elective Courses (Select two):**
- Growth & Development
- Exercise Physiology
- Equine Behaviour
- Equine Genetics

For details and to apply, please see [http://www.equinesciencecertificate.com](http://www.equinesciencecertificate.com)

**Certificate in Equine Business Management**
The Certificate in Equine Business Management consists of six online courses and is designed for those interested in working in the business and management aspects of the equine industry. A selection of courses is offered each semester. Students who have completed or are currently registered in the Equine Science Certificate or Diploma in Equine Studies programs may opt to continue their studies in order to earn the Certificate in Equine Business Management.

**Required Courses:**
- Equine Business Management
- Management of the Equine Environment
- The Equine Industry
- Finance and Risk Management
- Marketing and Communication in the Equine Industry

**Elective Courses (Select one):**
- Equine Journalism
- Equine Event Management
- Stewardship of the Equine Environment

For details and to apply, please see [http://www.equinebusinesscertificate.com](http://www.equinebusinesscertificate.com)/

**Equine Veterinary Technicians Certificate**
The Equine Veterinary Technicians Certificate will provide equine-specific academic (research and evidence-based) and skill development (practicum’s) for Veterinary Technicians. This program is delivered in partnership with Ridgetown Campus.

**Required Courses:**
- The first three courses are delivered in an online distance education format. The advanced online courses are available to all students who meet the pre-requisite requirements.
- Advanced Equine Functional Anatomy
  - Pre-requisite is Equine Functional Anatomy or equivalent
- Advanced Equine Health through Nutrition
  - Pre-requisite is Equine Nutrition or equivalent
- Advanced Equine Behaviour
  - Pre-requisite is Equine Behaviour or equivalent

The following courses are delivered in a face-to-face practicum. These courses are available to students who are registered in a Veterinary Technology program, have graduated from Veterinary Technology program or are currently a Registered Veterinary Technician or equivalent. International student designations will be considered.

- Equine Dentistry
- Equine Reproduction
- Equine Critical Care

To be awarded the certificate students will have:
- Completed all courses with a minimum grade of 60 percent
- Graduated from a recognized Veterinary Technician program or
- Qualified for the Registered Veterinary Technician designation or equivalent.

For more information contact the Centre for Open Learning and Educational Support at info@coles.uoguelph.ca or 519-767-5000.

**Equine Welfare Certificate**
This certificate will assist students to become knowledgeable stakeholders on equine welfare issues; able to consider multiple perspectives and to engage in effective dialogue with each other, community members and researchers, thereby assisting the community in recognising equine welfare issues and their solutions.

**Pre-Requisite Courses:**
- Management of the Equine Environment
- Equine Behaviour
- One other Equine Science Certificate course

**Required Courses:**
- Equine Welfare
- Global Perspectives in Equine Welfare
- Advanced Equine Behaviour
- Equine Nutrition OR Advanced Equine Health through Nutrition

**Electives (select 2):**
- Health & Disease Prevention
- Equine Industry
- Equine Nutrition OR Advanced Equine Health through Nutrition
- Advanced Equine Anatomy

For more information contact the Centre for Open Learning and Educational Support at info@coles.uoguelph.ca or 519-767-5000

**Diploma in Equine Studies**
The Diploma in Equine Studies is comprised of ten online courses and is designed to provide advanced knowledge for horse owners and those working in the equine industry. A selection of courses is offered each semester. Students who have completed or are currently registered in the Equine Science Certificate program may opt to continue their studies in order to earn the Diploma, and students new to the Diploma in Equine Studies will be provided with a comprehensive starting point.

**Required Courses:**
- Management of the Equine Environment
- Health & Disease Prevention
- Functional Anatomy
- Equine Nutrition
- Equine Behaviour
- Stewardship in the Equine Environment

**Elective Courses (Select Four):**
- Equine Growth & Development
- Equine Exercise Physiology
- Equine Genetics
- The Equine Industry
- Equine Business Management
- Finance and Risk Management
- Marketing and Communication in the Equine Industry
- Equine Journalism
- Equine Event Management

For details and to apply, please see [http://www.equinestudiesdiploma.com](http://www.equinestudiesdiploma.com)/

**Landscape/Horticulture Online Certificate Programs**
The Landscape/Horticulture Online Certificate Programs include five certificates and over 20 online/web-based courses. Learners may enrol in one or more individual courses or study towards one or more of the certificates.
Creating Landscapes Certificate

The Creating Landscapes Certificate is designed to provide landscape designers, contractors and gardening enthusiasts with the training and skills necessary for creating desirable outdoor living environments. The program refers to historical influences on modern landscape design and discusses the Design Process. Other topics include management principles for operating a successful business, the physical properties and uses of landscape construction material, and incorporating computer technology in creating successful designs.

Required Courses:
- Landscape Design I
- Landscape Design II
- Introduction to Landscape Construction
- Introduction to Plant Identification
- Computer Assisted Design
- Business Management Principles

For details and to apply, please see http://www.horticulturecertificates.com/.

Maintaining Golf Courses Certificate

The Maintaining Golf Courses Certificate is designed to provide turf managers and golf superintendents with turf identification and management skills, insight into golf course design and construction techniques, tree care, and other best management practices related to the care of golf courses. Challenges such as maintaining healthy playing conditions while respecting environmental needs such as wildlife and water quality are also examined.

Required Courses:
- Turf Management
- Irrigation
- Golf Course Design and Construction
- Weed Management in Turf
- Arboriculture
- Environmental Management of the Golf Course

For details and to apply, please see http://www.horticulturecertificates.com/.

The Horticulturist Certificate

The Horticulturist Certificate is designed especially for gardeners wishing to enhance their knowledge and skills relating to the residential garden environment. The impact of soil conditions are a critical aspect of this study program. Basic horticulture and botany are discussed as are principles of plant care for ensuring optimum health. Students will learn about common plant pests and diseases and their effective treatments. They will also learn to understand how beautiful and functional landscapes are the result of good design strategies and tactics.

Required Courses:
- Cultural Practices for Plants
- Introduction to Plant Identification
- Designing the Landscape
- Ornamental Plant Protection
- Introduction to Soils and Plant Growth
- Weed Management in Horticulture
- Growing Plants

For details and to apply, please see http://www.horticulturecertificates.com/.

Growing Plants for Profit Certificate

In the Growing Plants for Profit Certificate, students will learn how to effectively grow healthy crops while at the same time implementing sound business practices. Plant propagation techniques are thoroughly discussed as are the specifics of both greenhouse and nursery production. Business skills are offered to guide students through the complexities of running a profitable business operation. Plant identification techniques ensure that learners have a good understanding of the most exciting product choices.

Required Courses:
- Commercial Greenhouse Crop Production
- Introduction to Plant Identification
- Greenhouse Management
- Nursery Production
- Plant Propagation
- Business Management Principles

For details and to apply, please see http://www.horticulturecertificates.com/.

Sustainable Landscapes Certificate

The Sustainable Landscapes Certificate is designed for students who wish to learn about innovative strategies which help fortify the relationships between people, water and land, ensuring best care of natural environments. Design tactics to retain or enhance naturalized landscapes will be examined. Students will gain knowledge about tree health as it relates to both the individual plant and woodland communities.

Required Courses:
- Alternative Land Use Practices for Sustainable Landscapes
- Introduction to Plant Identification
- The Naturalized Landscape
- An Introduction to Woodland Ecology
- Arboriculture

For details and to apply, please see http://www.horticulturecertificates.com/.

Sustainable Urban Agriculture/Horticulture Online Certificate Programs

The Sustainable Urban Agriculture/Horticulture Online Certificate Programs include two certificates and nine online/web-based courses. Learners may enrol in one or more individual courses or choose a study path to obtain the certificates.

Sustainable Urban Agriculture Certificate

The Sustainable Urban Agriculture Certificate is designed for urban dwellers, city planners and community gardeners interested in growing food in sustainable manner to support families, neighbourhoods and communities.

Core Courses:
- Theory and Principles of Sustainable Urban Agriculture and Horticulture
- Fundamentals of the Role of Plants in Urban Sustainability
- Sustainable Urban Crop Production
- Food Processing for Urban Gardeners

Elective Courses - choose one of the following:
- Ecology of Gardens and Landscapes in an Urban Environment
- Agricultural Plant Selection for Urban Gardeners
- Business Management Principles

For details and to apply, please see http://www.urbanhort.ca.

Sustainable Urban Horticulture Certificate

The Sustainable Urban Horticulture Certificate focuses on the environmental, social and economic implications of horticulture in our cities. The program is designed for landscape designers and builders, municipal planners and environmental advocates interested in micro-economic sustainability and maximizing aesthetic and property values through innovative garden design.

Core Courses:
- Theory and Principles of Sustainable Urban Agriculture and Horticulture
- Fundamentals of the Role of Plants in Urban Sustainability
- Naturalizing and Restoring Urban Gardens
- Sustainability, Economics and Horticulture

Elective Courses - choose one of the following:
- Ecology of Gardens and Landscapes in an Urban Environment
- Human Well-Being and the Urban Garden Environment
- Introduction to Plant Identification

For details and to apply, please see http://www.urbanhort.ca.

Professional Association Affiliations

Several courses have been approved by the following associations and may be applied to each association’s respective professional programs:

- Appraisal Institute of Canada
- Association of Administrative Assistants
- Canadian Golf Superintendents Association
- Canadian Payroll Association
- Golf Course Superintendents Association of America
- Human Resources Professionals Association of Ontario
- Industrial Accident Prevention Association
- Integrated Pest Management - Plant Health Care Council
- Ontario Association of School Business Officials
- Ontario Association for Marriage and Family Therapy
- Purchasing Management Association of Canada

Summer Studies (Summer Semester)

Because the university operates on a three semester system, a broad range of course offerings is available in the Summer Semester (May to August). During the summer months, degree credit courses are offered in a variety of formats to meet the needs of full-time and part-time students both on-campus and off-campus. In addition to regular semester courses running from May to August, there is a summer session (May to June) when degree courses are offered in a six week format. For scheduling information consult the Undergraduate Timetable, available from the Academic Records Section, in the University Centre, Level 3.
Distance education opportunities are also available during the summer. For further details, contact the Centre for Open Learning and Educational Support, Room 160, Johnston Hall, by email: info@coles.uoguelph.ca, by phone 519-767-5000 or http://www.coles.uoguelph.ca/
XII. Course Descriptions

General Information

Course Labelling and Levels

Each course is identified by a two-part code. The first part of the code refers to the subject area, the second to the level of the course. Thus, the course PSYC*3570 is a course in the subject area of Psychology (PSYC*XXXX), and is of a level that places it among courses in the 3000 series. The series 1000, 2000, 3000 and 4000 numbers are intended to indicate progressively more demanding content, and correspondingly increasing competence on the part of the students enrolled in the course. Courses in the 1000 series are mainly for first year students, those in the 2000 series are mainly for second year students, and those in the 3000 series are for third year students. Similarly, courses in the 4000 series are mainly intended to be taken by students in the fourth year of honours programs. It is important that students planning their courses have clearly in mind the significance of these numbers so that they may guard against undertaking course work at levels for which they are insufficiently prepared. A two-semester course (e.g. AGR*2351/2) is taken over 2 continuous semesters and counts as 1 course attempt per semester for classification, continuation of study and calculation of fees. Two-semester courses cannot be split.

Course Information

The letters S, F, W indicate the University's intention to offer the course in the Summer (S), Fall (F) or Winter (W) semester during the academic year covered by this Calendar. Although courses normally will be offered in the semester indicated, students preparing their course programs are advised to consult the Undergraduate Course Timetable. The University cannot guarantee that all courses will be offered in the exact semester indicated. The letter U indicates that an intended offering has not been assigned to the course. Students should consult the Undergraduate Course Timetable posted on WebAdvisor [https://webadvisor.uoguelph.ca/] or contact the departments offering those courses to determine the semester offerings.

The figures in parentheses ( ) following the semester designation are a general guide to the lecture and laboratory contact hours per week, the first digit being the number of lecture hours and the second, the number of laboratory hours. The credit weight for each course appears in brackets [ ]. A credit weight of [0.50] indicates 10-12 student effort hours, including class time, on academic tasks associated with the course.

Detailed course descriptions are maintained at the office of the department offering the course. Some courses, designated "Experiential Learning" courses in the Calendar description, are deliberately designed to accommodate the need to grant academic credit for experiential learning external to regular courses, in such contexts as co-operative education, field observation/job shadowing, internship/externships, practical, service learning, or work study (and other approved experience). Prior approval for admission to these courses must be obtained from the department and instructor concerned.

Course Prerequisites

In lists of course prerequisites, "or" conditions are spelled out explicitly, but "and" conditions are indicated with a comma ",". For example: "CSTU*2270, FRHD*2010, NUTR*2010" means "CSTU*2270 and FRHD*2010 and NUTR*2010". A number of courses have stated prerequisites which are prior requirements for entry to the course. Students who do not satisfy course prerequisites, or who in the opinion of the instructor do not possess an equivalent background to that of the stated prerequisites, are not eligible to enroll in the course. When some specific background is desirable but not required, the course description will include a statement of recommended background. It is understood that the instructor may accept equivalent courses from other institutions in place of the stated prerequisites. Students who wish to enroll in courses for which they do not have the stated prerequisite(s) must obtain instructor approval as outlined in Section VIII, Undergraduate Degree Regulations and Procedures, in this Calendar.

Course Equates and Restrictions

Equates - Equate indicates a course identical to the one under which it is listed. The course may have been re-numbered or may be cross-listed under two subject areas.

Students will not be permitted to register in equated courses.

Restrictions - A restriction is a "rule" that is placed on the computer system (Colleague) at the direction of an academic department so that particular students may not register in particular courses. The course may be restricted because there is sufficient overlap in content with another course so that it is inappropriate for the student to take a similar course for credit. In a different instance, the course may be restricted by "Instructor Consent" so that the student must discuss the special requirements of the course with the instructor before enrolling. Or, alternatively, the restriction may reflect a "Priority Access" designation for enrolment management purposes. (See Priority Access).
Accounting

Department of Business - College of Management and Economics

ACCT*2220 Financial Accounting F,W (3-0) [0.50]
An introductory course designed to develop an understanding of current accounting principles and their implication for published financial reports of business enterprises. The course approaches the subject from the view of the user of accounting information rather than that of a person who supplies the information. (Also offered through Distance Education format.)
Prerequisite(s): 1 of ECON*1050, ECON*1100, ENGG*3240, FARE*1400
Restriction(s): Priority Access course. Enrolment may be restricted to particular programs or specializations. See department for more information.

ACCT*2230 Management Accounting F,W (3-0) [0.50]
This course emphasizes the use of accounting information to facilitate effective management decisions. Topics include cost determination, cost control and analysis, budgeting, profit-volume analysis and capital investment analysis.
Prerequisite(s): 1 of ACCT*2220, AGEC*2220, BUS*2220
Equate(s): AGEC*2230, BUS*2230
Restriction(s): Priority Access course. Enrolment may be restricted to particular programs or specializations. See department for more information.

ACCT*2240 Applied Financial Accounting F (3-0) [0.50]
In this course students will learn to apply the fundamental principles emanating from accounting’s conceptual framework and undertake the practice of financial accounting. Students will become adept at performing the functions related to each step in the accounting cycle up to and including the preparation of the financial statements and client reports through a semester-long business simulation. Additionally, students will develop the skills necessary for assessing an organization’s system of internal control and financial condition.
Prerequisite(s): ACCT*2220 or BUS*2220
Equate(s): BUS*2240

ACCT*3230 Intermediate Management Accounting W (3-0) [0.50]
This course continues the managerial decision making focus of ACCT*2230. Topics include process costing, transfer pricing, the decision making process, variances and performance measurement.
Prerequisite(s): 1 of ACCT*2230, AGEC*2230, BUS*2230
Equate(s): BUS*3230
Restriction(s): Enrolment may be restricted to particular degrees or programs. See department for more information.

ACCT*3280 Auditing I F (3-0) [0.50]
Auditing I is an examination of the principles and theory underlying the practice of auditing. Concepts of materiality and audit risk are examined and discussed. Sources and techniques for gathering auditing evidence will also be examined. Modern organizations rely on information systems, technology and internal controls to manage and monitor their operations and the impact of these systems on the quality of information produced and on the scope of audits are important elements of this course.
Prerequisite(s): ACCT*3330 or BUS*3330
Equate(s): BUS*3280
Restriction(s): BUS*4280

ACCT*3330 Intermediate Financial Accounting I W (3-0) [0.50]
This course presents a critical evaluation of accounting concepts, principles and practices in relation to both the traditional and current value accounting measurement models. Emphasis will be on the effect of alternative accounting practices and measurement models on income determination and asset valuation.
Prerequisite(s): 1 of ACCT*2220, AGEC*2220, BUS*2220
Equate(s): AGEC*3330, BUS*3330

ACCT*3340 Intermediate Financial Accounting II F (3-0) [0.50]
This course will build on the foundation in financial accounting concepts and principles gained in ACCT*3330. The focus is on how entities account for current and non-current liabilities and equity accounts, including, income taxes, leases, pensions and other post retirement benefits, share equity and retained earnings, stock options. Additional topics may include earnings per share, restatements and statement analysis.
Prerequisite(s): ACCT*3330 or BUS*3330
Equate(s): BUS*3340

ACCT*3350 Taxation F (3-0) [0.50]
The fundamentals of the tax system as it applies to all taxpayers will be the focus of the first half of the course. The second half will develop forms of business organizations from a tax perspective. Basic tax planning techniques which attempt to maximize the cash flows and returns on investments will then be studied. The emphasis in the course is on business decision making. A review of personal financial planning and investment decisions will also be included.
Prerequisite(s): (BUS*3320 or MGMT*3320), (ACCT*3330 or BUS*3330)
Equate(s): BUS*3350
Restriction(s): Enrolment may be restricted to particular degrees or programs. See the department for more information.

ACCT*4220 Advanced Financial Accounting F (3-0) [0.50]
This course is a critical evaluation of issues and problems associated with business combinations, long-term intercorporate investments, foreign operations and accounting for not-for-profit organizations. There is a strong emphasis on applying this body of knowledge through practical problems.
Prerequisite(s): (ACCT*3330 or BUS*3330), (ACCT*3340 or BUS*3340)
Equate(s): BUS*4220
Restriction(s): Enrolment may be restricted to particular degrees or programs. See the department for more information.

ACCT*4230 Advanced Management Accounting W (3-0) [0.50]
This course provides advanced coverage of management accounting concepts and the application of management accounting information for managerial decision-making. This course extends the concepts covered in intermediate management accounting and also integrates pertinent situational problems from other functional areas of enterprises such as global trade and process controls.
Prerequisite(s): ACCT*3230 or BUS*3230
Equate(s): BUS*4230
Restriction(s): Enrolment may be restricted to particular degrees or programs. See the department for more information.

ACCT*4240 Accounting Theory and Integrated Cases W (3-0) [1.00]
This course exposes the student to a broad variety of issues in accounting theory and financial reporting.
Prerequisite(s): ACCT*3340 or BUS*3340
Equate(s): BUS*4240

ACCT*4270 Auditing II F (3-0) [0.50]
This course considers a number of advanced topics concerning both the auditor and audit techniques within the context of public accounting. It builds on the knowledge of the audit task derived in Auditing I - BUS*3280 as well as the depth and breadth of knowledge gained in ACCT*3330 and ACCT*3340.
Prerequisite(s): ACCT*3280 or BUS*3280
Equate(s): BUS*4270

ACCT*4290 Auditing III W (3-0) [0.50]
This course introduces the student to the field of auditing within the field of Electronic Data Processing(EDP).
Prerequisite(s): ACCT*4270 or BUS*4270
Equate(s): BUS*4290

ACCT*4350 Income Taxation II F (3-0) [0.50]
An intensive study of the Canadian Income Tax Act and related statutes, this course will focus on the application to the taxation of individuals, partnerships and corporations. A strong emphasis will be placed on compliance and tax planning.
Prerequisite(s): ACCT*3350 or BUS*3350
Equate(s): BUS*4350
Agriculture

Ontario Agricultural College, Dean's Office

AGR*1050 Communication Skills W (3-2) [0.50]

Students will develop written language skills, oral communication, and presentation skills. The development of practical skills includes writing business letters and other business correspondence, formal and informal reports, instructional writing, critical thinking and critical writing. Students will present and deliver a variety of information and persuasive oral presentations.

Restriction(s): Registered in BBRM
Location(s): Ridgeway

AGR*1110 Introduction to the Agrifood Systems F (6-0) [1.00]

This introductory course provides an overview of Canadian and global agri-food systems. Students will be introduced to many different facets of agriculture, including primary production (conventional and organic) of commodity, mid-value and high-value crops, and livestock. Students will explore the agri-food system by tracing consumer end-products back to primary production. Modern, industrial agri-food systems as well as subsistence farming will be discussed. The course incorporates an experiential learning component in which students will explore new agri-food opportunity for Ontario by designing and assessing the value chain. Department of Plant Agriculture and Department of Animal and Poultry Science.

Restriction(s): AGR*1100, AGR*1250, BSC(Agr) Minor in Agriculture
Location(s): Guelph

AGR*2030 Pasture Management F (3-2) [0.50]

This course focuses on forage and weed identification, establishing, maintaining and improving pasture for grazing or cropping, and environmental and conservation stewardship approaches to pasturcana.

Prerequisite(s): BIOL*1040, (ENVS*2060 or SOIL*2010)
Restriction(s): Registered in BBRM, EQM
Location(s): Kemptville

AGR*2050 Agroecology W (3-0) [0.50]

Agroecology uses ecological theory to study, design, manage and evaluate agricultural systems. This course considers the interactions of all important biophysical, technical and socioeconomic components of farming systems and examines these systems as the fundamental units of study. Mineral cycles, energy transformations, biological processes and socioeconomic relationships are analyzed as a whole in an interdisciplinary fashion. Department of Plant Agriculture and Department of Animal and Poultry Science.

Prerequisite(s): (BIOL*1050 or BIOL*1070) CHEM*1040
Restriction(s): CROP*2110

AGR*2100 Human Resource Management W (3-2) [0.50]

This course is designed to teach students about some critical management principles and techniques for the human resource management function. The course will include student assessment and applications in the areas of recruiting, hiring, training, performance review, motivation, leadership, and retention.

Restriction(s): Registered in BBRM
Location(s): Ridgeway, Kemptville

AGR*2150 Plant Agriculture for International Development F (3-0) [0.50]

This course provides students interested in international development with an introductory mechanistic understanding of the biology underlying crop production in developing nations. Emphasis will be placed on simple, low-cost solutions from biology that have the potential to aid efforts in international development. This course is accessible to science and non-science students. Department of Plant Agriculture.

Restriction(s): 4.00 credits
Restriction(s): AGR*2470

AGR*2320 Soils in Agroecosystems F (3-2) [0.50]

This course is an introduction to soil resources with emphasis on management practices that will sustain the productivity of these resources and enhance the quality of the ecosystems of which they are a part. Students will develop a management plan for a farm that will take into account the roles of geological, geomorphological, biological, climatic and temporal factors on the formation, properties and uses of soils. The management plans will be placed in the broader context of provincial policies related to soil, air and water resources and local zoning regulations. School of Environmental Sciences.

Prerequisite(s): CHEM*1040, MATH*1080, (BIOL*1050 or BIOL*1070), BIOL*1090
Restriction(s): ENVS*2060, SOIL*2010

AGR*2350 Animal Production Systems, Health and Industry F (3-3) [0.50]

This course is designed to introduce the student to the Agri-food system in Ontario, nationally and internationally. All major animal industries will be covered starting from the grocery store and working back to the primary producer. Companion and exotic animals will also be covered. Topics include food, health and wellness (domestic animals and human), nutrition, housing, genetics, reproduction, husbandry practices and processing. Laboratories include product taste testing and evaluation, and animal production unit tours (including visits to major animal housing units generally on the second Saturday of the semester).

Prerequisite(s): BIOL*1030 or (2 of BIOL*1050, BIOL*1070, BIOL*1080, BIOL*1100)

AGR*2470 Introduction to Plant Agriculture F (3-3) [0.50]

The basic principles of plant morphology, nutrition, growth and development will be related to where and how agriculturally significant plants are grown. Agroecosystems and farming systems will be considered as frameworks for crop production analyses. The course uses examples from temperate, sub-tropical and tropical crops and cropping systems. Labs include problem-solving exercises in the context of plant production. Department of Plant Agriculture.

Prerequisite(s): 1 of BIOL*1030, BIOL*1050, BIOL*1070
Restriction(s): AGR*2150

AGR*2500 Field Course in International Agriculture W (3-0) [0.50]

This course introduces students to a wide range of tropical and subtropical agricultural production systems and issues. The course is comprised of a weekly 3 hour evening lecture and a two week field trip to Costa Rica where students will visit corporate and individual farms, university and government research stations. The field trip occurs during Reading Week in February. This course must be recorded as part of your Winter course selection. The cost of the course is approximately $2500.00 per student, in addition to tuition and compulsory fees. Students must identify their interest in taking this course by contacting the OAC Dean's Office before the October course selection period of the previous year. In order to confirm reservations for travel arrangements a deposit of $300 in the form of a cheque, made payable to the University of Guelph, must be submitted to the OAC Dean's Office by November. Students are required to pay the remainder of the cost of the course by contacting the OAC Dean's Office before the October course selection period of the previous year. In order to confirm reservations for travel arrangements a deposit of $300 in the form of a cheque, made payable to the University of Guelph, must be submitted to the OAC Dean's Office by November. Some scholarship support is available to B.Sc. (AGR.) students. Applications for scholarship support are due in Student Financial Services, Office of Registrarial Services by December 1st.

Prerequisite(s): AGR*1250 or registration in International Development
Restriction(s): Registration in BSC(Agr) or BA ID or Minor in Agriculture. Instructor consent required.

AGR*3010 Special Studies in Agricultural Science I S,F,W (3-0) [0.50]

A special study option that enables undergraduate students in semesters 5 through 8 to undertake specific projects in agricultural sciences. The topic of the special study will be determined in consultation with an faculty member and the individual student. Students are responsible for making appropriate arrangements with faculty at the departmental and/or college level prior to registration for the course. Department of Plant Agriculture and Department of Animal and Poultry Science.

Prerequisite(s): 10.00 credits
Restriction(s): Instructor consent required.

AGR*3450 Research Methods in Agricultural Science F (3-2) [0.50]

This course provides students with an opportunity to enhance their understanding of the principles and processes of agricultural research. The course will provide students with a foundation in critical thinking, experimental design and data analysis that will be applicable to independent research projects and graduate studies. Students will also explore the practical requirements and limitations of scientific research. Laboratory and field safety, animal care, intellectual property and research ethics will be reviewed. Students will be required to practice both oral presentation and writing skills as core components of their evaluation. Department of Plant Agriculture and Department of Animal and Poultry Science.

Prerequisite(s): Completion of 7.50 credits including (1 of GEOG*2460, STAT*2040, STAT*2060, STAT*2080)
Restriction(s): Enrollment in the BSC(Agr), BBRM, BSC:ABIO or Minor in Agriculture

AGR*3500 Experiential Education F (3-0) [0.50]

Student initiated experiential learning opportunities can be developed as a credit course in consultation with a supervising faculty member. Details of the activities included in the program will be outlined in a learning contract initiated by the student and agreed to by the faculty supervisor in the April prior to the commencement of the work experience. The employer will also provide a description of the project and/or the work experience. The course is designed to meet the needs of BSC(Agr.), BBRM and Agricultural Business students. Department of Plant Agriculture.

Prerequisite(s): 5.00 credits
Restriction(s): Instructor consent required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*3510</td>
<td>Experiential Education II F (3-0) [0.50]</td>
<td></td>
<td>The purpose of this course is to enable students to gain generic career skills by actively reflecting on their own skills in the context of their own summer employment. Students conduct a self-assessment, and work to improve skills they themselves select as goals. They also undertake a major project that is probably, but not necessarily, related to their summer employment. This project is done with the assistance of a faculty advisor. Department of Animal and Poultry Science.</td>
</tr>
<tr>
<td>Prerequisite(s)</td>
<td>AGR*3500</td>
<td></td>
<td>Instructor consent required.</td>
</tr>
<tr>
<td>AGR*4010</td>
<td>Special Studies in Agricultural Science II S,F,W (3-0) [0.50]</td>
<td></td>
<td>This special study option enables undergraduate students in semesters 5 through 8 to undertake specific projects in agricultural science. The topic of the special study will be determined in consultation with a faculty member and the individual student. Students are responsible for making appropriate arrangements with faculty member prior to registration for the course. Department of Plant Agriculture and Department of Plant Agriculture and Animal &amp; Poultry Science.</td>
</tr>
<tr>
<td>Prerequisite(s)</td>
<td>15.00 credits</td>
<td></td>
<td>Instructor consent required.</td>
</tr>
<tr>
<td>AGR*4450</td>
<td>Research Project I S,F,W (0-12) [1.00]</td>
<td></td>
<td>This course provides for the independent study of a current topic in agricultural or environmental science designed to encourage senior undergraduates to conduct research. The course includes participation in meetings organized by the coordinator, work with a faculty advisor to develop a research project, formulate hypotheses, design and carry out preliminary experiments to test the hypotheses. Students will carry out independent library research, begin experimental work, prepare a written report and make a presentation to other students in the course of the research plan and preliminary results. Students must make arrangements with both the faculty supervisor and the course coordinator at least one semester before starting the course. This course will normally be followed by AGR*4460 to provide 2 semesters to complete the research project.</td>
</tr>
<tr>
<td>Prerequisite(s)</td>
<td>10.00 credits</td>
<td></td>
<td>Permission of the course coordinator (contingent on the availability and agreement of a faculty advisor) BSC(Agr) or BSC or BBRM, 70% cumulative average.</td>
</tr>
<tr>
<td>AGR*4460</td>
<td>Research Project II S,F,W (0-12) [1.00]</td>
<td></td>
<td>Independent study of a current topic in agricultural or environmental science designed to encourage senior undergraduates to conduct research. The focus of this course will be the completion of the research plan developed in AGR*4450 by the student in consultation with a faculty advisor. The course includes participation in meetings organized by the coordinator and meetings with a faculty advisor to review research progress. Students will carry out independent research, prepare a written report of the research findings in a scholarly style and make a presentation to other students in the course of the research results. Open to students in semesters 6, 7 and 8 of the B.SC. (Agr.) or B.Sc. degree program.</td>
</tr>
<tr>
<td>Prerequisite(s)</td>
<td>AGR*4450</td>
<td></td>
<td>Permission of the course coordinator and faculty advisor.</td>
</tr>
<tr>
<td>AGR*4500</td>
<td>Agrifood Industry Problem-Solving W (3-0) [0.50]</td>
<td></td>
<td>This course will provide senior level students in agricultural and related sciences with experience in working as a team to propose solutions to agrifood industry problems. The perspective of the best solution will be the agrifood system rather than any individual stakeholder group. Attention will be given to integrating material from different disciplines, further refining skills in problem-solving, and communication. Students and faculty will meet prior to the conclusion of the preceding semester to identify industry projects, student expertise, and to develop a preliminary strategy. (Last offering - Winter 2015)</td>
</tr>
<tr>
<td>Prerequisite(s)</td>
<td>3.50 credits at the 3000 level or 1.50 credits at the 4000 level in any agricultural science area or agricultural business area.</td>
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<tr>
<td>AGR*4600</td>
<td>Agriculture and Food Issues Problem Solving W (3-0) [1.00]</td>
<td></td>
<td>The issues facing the agriculture and food sector are many and varied and relate to the economy, the environment and society. Within these issues there are problems which require thoughtful solutions. Working in teams, with guidance from faculty advisors, students will have an opportunity to develop solutions to real-world problems facing the agriculture and food sector. In the process students will have an opportunity to develop their research, communication, presentation, writing and group work skills. (First offering - Winter 2016)</td>
</tr>
<tr>
<td>Prerequisite(s)</td>
<td>12.50 credits</td>
<td></td>
<td>Registration in BSC(Agr), BBRM, BCOMM.FAB, B.COMM.FAB:C or BA.FARE program.</td>
</tr>
</tbody>
</table>
Anatomy

Department of Biomedical Sciences

For course listings and descriptions see Biomedical Sciences.

Additional course listings may be found in the course descriptions for Human Kinetics, Veterinary Medicine and Zoology.
Animal Science

Department of Animal and Poultry Science

ANS*C1210 Principles of Animal Care and Welfare W (4.5-0) [1.00]

Students will be introduced to the major ethical theories that deal with humanity's duties to animals. The relationship of ethics to science will be discussed. Factors that contribute to the quality of life of animals will be considered and methods of assessing animal welfare will be described. Common causes of reduced animal welfare will be covered. The course will also deal with how different cultures approach animal welfare and attempt to regulate it.

Prerequisite(s): BIOL*1050
Restriction(s): ANSC*3210

ANS*C2330 Horse Management Science F (3-0) [0.50]

An introduction to horse management designed to give those with an interest in the various segments of the horse industry a strong scientific basis for production and management decisions. The course includes study of the evolution of our current industry, the biology of growth, performance and management of the equine athlete. The evaluation of conformation as it relates to performance as well as aspects of behaviour, nutrition, reproduction and genetics consistent with the level of the course are included.

Prerequisite(s): [BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)]
Restriction(s): Registration in BBRM.EQM.

ANS*C2340 Structure of Farm Animals W (3-1) [0.50]

This course is an introduction to the carcass structure of cattle, pigs, sheep and poultry. Animal growth and development are considered in relation to meat production. The course is for students intending to major in Animal Science and Animal Biology. (Also offered through Distance Education Format.)

Prerequisite(s): BIOL*1040 or (2 of BIOL*1050, BIOL*1070, BIOL*1080, BIOL*1090)

ANS*C3050 Aquaculture: Advanced Issues F (3-0) [0.50]

This course examines the fundamental principles and advanced interdisciplinary issues involved in the farming of aquatic organisms. The course will concentrate primarily on finfish species due to their worldwide commercial importance. Lectures will cover fish physiology, behaviour, nutrition, genetics, water quality, health and disease, reproductive techniques, economic, political and legal issues and various culture technologies. Students will analyze contemporary challenges facing the aquaculture industry through exercises requiring interdisciplinary knowledge, lateral thinking, creative problem solving and bridging science and technology to issues management. (Offered in odd-numbered years.)

Prerequisite(s): A minimum of 8.00 credits in biology, including AGR*2350 or NUTR*3210
Restriction(s): ANSC*2200

ANS*C3080 Agricultural Animal Physiology F (3-1.5) [0.50]

This course is an introduction to the physiology of domesticated farm animals. The course will emphasize homeostatic control of the major body systems. The lectures cover the nervous, cardiovascular, respiratory, urinary, immune, endocrine and reproductive systems. The lectures and laboratories are closely integrated.

Prerequisite(s): BIOC*2580 or EQN*2040
Restriction(s): Registration in BSC(Agr), BSC.ABIO or BBRM.EQM, Minor in Agriculture.

ANS*C3120 Introduction to Animal Nutrition F (3-2) [0.50]

This course applies the principles of nutrition to the development of diets and feeding programs for the various species of animals of agricultural importance. Department of Animal and Poultry Science.

Co-requisite(s): NUTR*3210
Restriction(s): Registration in BSC(Agr) or BSC.ABIO

ANS*C3170 Nutrition of Fish and Crustacea W (3-0) [0.50]

The nutrition of fish and crustaceans with emphasis on those species used in aquaculture. Nutritional biochemistry, nutritional pathology and comparative nutrition of cold blooded, amniotic and reproduction systems. The lectures and laboratories are closely integrated.

Prerequisite(s): NUTR*3190 or NUTR*3210
Restriction(s): NUTR*3340

ANS*C3180 Wildlife Nutrition W (3-0) [0.50]

A study of the nutrition of avian and mammalian wildlife with emphasis on North American species. The role of nutrition in survival and population growth of wildlife in their natural habitat. Formulation of diets for wild species in captivity.

Prerequisite(s): NUTR*3190 or NUTR*3210
Restriction(s): NUTR*3350

ANS*C3210 Principles of Animal Care and Welfare W (3-1.5) [0.50]

Students will be introduced to the major ethical theories that deal with humanity's duties to animals. The relationship of ethics to science will be discussed. Factors that contribute to the quality of life of animals will be considered and methods of assessing animal welfare will be described. Common causes of reduced animal welfare will be covered. The course will also deal with how different cultures approach animal welfare and attempt to regulate it. (Also offered through Distance Education format.) (Last offering - Winter 2014)

Prerequisite(s): A minimum of 7.50 credits including AGR*2350
Restriction(s): ANSC*3150

ANS*C4020 Genetics of Companion Animals F (3-0) [0.50]

This course includes theoretical and applied aspects of practical breeding programs for performance, pleasure and hobby animal populations leading to genetic improvement and population stability. Quantitative genetics and biotechnology are integrated using case studies to develop practical and sustainable breeding programs for horses, dogs, cats, rabbits and hobby livestock. Legislative requirements governing animal registration and breed development are also explored.

Prerequisite(s): MBG*3060

ANS*C4050 Biotechnology in Animal Science F (3-2) [0.50]

Starting from the principles of recombinant DNA, DNA marker identification, stem cell and generation of transgenic animals, the course provides an overview on how biotechnology has impacted biomedical science and animal production. The current challenges and potential opportunities in this field are discussed.

Prerequisite(s): MBG*2000 or MCB*2050

ANS*C4090 Applied Animal Behaviour F (3-0) [0.50]

This course deals with why domesticated animals behave as they do with reference to causation, function, ontogeny and phylogeny. Basic principles are illustrated by examples taken from all the common domesticated and captive species. Emphasis is placed on the application of behavioural knowledge to improve captive environments and animal production systems. Designing housing, facilities and management procedures to suit the behaviour of the animals in question is also covered.

Prerequisite(s): ANSC*3080
Restriction(s): ANSC*4070

ANS*C4100 Applied Environmental Physiology and Animal Housing W (3-0) [0.50]

Basic concepts of environmental physiology and their application to animal housing and management will be introduced. The course will review the physics of heat flow, light and air quality as they relate to animal biology and health. Other aspects, such as the physical environment, that impact on animal health and well-being will be discussed.

Prerequisite(s): ANSC*3080
Restriction(s): ANSC*4080

ANS*C4230 Challenges and Opportunities in Animal Production F (0-6) [0.50]

This course will provide senior level students with experience in working as a team to propose solutions to animal industry problems. Teams of students will critically assess animal-related businesses at the farm or industry level under the supervision of a faculty member. Students and faculty will meet in the preceding Winter semester to identify common interests and develop a preliminary strategy.

Prerequisite(s): ANSC*3080, NUTR*3210, MBG*3090
Restriction(s): Instructor consent required.

ANS*C4260 Beef Cattle Nutrition W (3-0) [0.50]

This course is designed for students to evaluate problems in feeding beef cattle. Relevant aspects of digestion and metabolism of nutrients as well as current issues of feeding beef cattle and diagnosing nutritional deficiencies will be included.

Prerequisite(s): ANSC*3120
Restriction(s): ANSC*4160

ANS*C4270 Dairy Cattle Nutrition F (3-0) [0.50]

This course is designed to apply principles of dairy cattle nutrition to solving on-farm nutritionally based problems. A case study approach will be used in conjunction with computer modeling and computer ration formulation programs.

Prerequisite(s): ANSC*3120
Restriction(s): ANSC*4170

ANS*C4280 Poultry Nutrition F (3-0) [0.50]

This course is designed to evaluate nutrient requirements of poultry. Students will learn how to apply feeding programs for meat, laying birds and breeders and how feeding affects poultry meat and egg composition.

Prerequisite(s): ANSC*3120
Restriction(s): ANSC*4180
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Description</th>
<th>Prerequisite(s)</th>
<th>Restriction(s)</th>
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<tbody>
<tr>
<td>ANSC*4290</td>
<td>Swine Nutrition F (3-0) [0.50]</td>
<td>This course is designed to explore details of evaluating feed ingredients and formulating diets for swine. Students will use models to evaluate various aspects of nutrient partitioning for growth and reproduction in pigs.</td>
<td>ANSC*3120</td>
<td>ANSC*4190</td>
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<tr>
<td>ANSC*4350</td>
<td>Experiments in Animal Biology W (0-6) [0.50]</td>
<td>This course provides an opportunity for hands-on projects involving live animals and laboratory techniques. Projects will be provided by APS faculty within their broad fields of study, for example animal behaviour and welfare, environmental physiology, endocrinology, and reproduction. Approval of the ABIO Faculty Advisor must be obtained before course selection.</td>
<td>ANSC<em>3080, ANSC</em>3300, ANSC*4090</td>
<td>ANSC<em>4100, ANSC</em>4490</td>
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<tr>
<td>ANSC*4350</td>
<td>Animal Metabolism W (3-0) [0.50]</td>
<td>Current concepts in whole animal metabolism and the quantitative techniques used to measure whole body metabolic kinetics will be presented. Tissue and organ specific biochemical processes will be integrated with whole body control mechanisms.</td>
<td>NUTR<em>3190 or NUTR</em>3210</td>
<td>ANSC*4510</td>
</tr>
<tr>
<td>ANSC*4470</td>
<td>Applied Endocrinology W (3-0) [0.50]</td>
<td>This course examines the endocrine systems of farm animals and their applications to livestock production. Considerable emphasis will be placed upon understanding how knowledge of endocrine regulation can be applied within animal production systems.</td>
<td>ANSC*3080</td>
<td>ANSC*4480</td>
</tr>
<tr>
<td>ANSC*4560</td>
<td>Pet Nutrition F (3-0) [0.50]</td>
<td>This course covers nutrient requirements, feed formulation and nutritional idiosyncrasies for dogs, cats, and exotic pets.</td>
<td>NUTR<em>3190 or NUTR</em>3210</td>
<td>ANSC*4510</td>
</tr>
<tr>
<td>ANSC*4610</td>
<td>Critical Analysis in Animal Science W (3-0) [0.50]</td>
<td>Each student will select and critically review a topic of emerging importance in animal science. The topic will be presented to the group as a written paper in journal format, as a poster, and as a formal seminar. This course is designed for students in their final year of the Animal Biology Major.</td>
<td>12.00 credits including 2.00 in animal sciences</td>
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<tr>
<td>ANSC*4650</td>
<td>Comparative Immunology W (3-0) [0.50]</td>
<td>Livestock and fish have developed common and unique defense strategies for resisting microbial and viral infections. The focus of this course is to review and compare these defense mechanisms in different tissues, and describe the significance of neuroendocrine signalling, genetic polymorphisms, nutrition and food-borne toxins, and host-microbial interaction in regulating innate and acquired immune responses and disease resistance.</td>
<td>ANSC*3080</td>
<td></td>
</tr>
<tr>
<td>ANSC*4700</td>
<td>Research in Animal Biology I S.F.W (0-6) [0.50]</td>
<td>This course is an opportunity for those students potentially interested in postgraduate studies to work with a committed faculty advisor to research a problem, analyse data and/or design experiment(s) that address a solution. Evaluation of the course requires a substantive literature review and/or data analysis. Selection of a faculty supervisor and approval from course coordinator must be obtained before course selection.</td>
<td>14.00 credits</td>
<td>Registered in Animal Biology Major. Instructor consent required.</td>
</tr>
<tr>
<td>ANSC*4710</td>
<td>Research in Animal Biology II S.F.W (0-6) [0.50]</td>
<td>This course is a continuation of ANSC<em>4700, Research in Animal Biology I. It allows more sophisticated projects to be undertaken or to provide an opportunity to build upon the work of ANSC</em>4700. Evaluation of the course requires a greater emphasis on data analysis or experimental design than for ANSC*4700. Selection of a faculty advisor and approval of course coordinator must be obtained before course selection.</td>
<td>14.00 credits</td>
<td>Registered in Animal Biology Major. Instructor consent required.</td>
</tr>
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</table>
Anthropology

Department of Sociology and Anthropology

The Department of Sociology and Anthropology offers three types of courses: sociology courses with the prefix SOC*; anthropology courses with the prefix ANTH*; and departmental courses with the prefix SOAN*.

Courses will normally be offered in the semesters designated. For information on other semesters these courses will be offered and the semesters those courses without designations will be offered, please check with the department. In addition to regularly scheduled courses, students may elect to do independent study. A student who wishes to do a reading course should first consult the professor with whom he/she wishes to work.

Please note: a student is allowed a total of 1.00 credits only for reading courses.

Please note: The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.

ANTH*1120 Biological Anthropology F (3-0) [0.50]

In this course students will be introduced to the central concepts of biological anthropology. Potential topics to be explored include hominin evolution, contemporary human diversity, nutrition and diet, and an introduction of forensic anthropology and paleopathology.

ANTH*1150 Introduction to Anthropology F,W (3-0) [0.50]

This course deals with humankind from a broad historical and cross-cultural perspective. Theoretical models, case studies and specific methods will be presented. Course topics may include the origin and transformations of human society, the relationship between biological and cultural traits, human language, variation in family structure and religion, the economic and political aspects of human society. (Also offered through Distance Education format.)

ANTH*2160 Social Anthropology W (3-0) [0.50]

This course will cover basic concepts that contribute to various anthropological approaches to the study of culture and society, such as the case study method and participant observation. The development of theory and methods will be examined through reading selected classic and contemporary ethnographies.

Prerequisite(s): ANTH*1150

ANTH*2230 Regional Ethnography F (3-0) [0.50]

This course offers a survey of ethnographic studies on selected cultural/geographical areas of the world. Topics covered may include social, economic and political systems, the colonial encounter, and the theoretical, methodological and political contexts of ethnographic representation. Focus may be given to such areas as Latin America, Sub-Saharan Africa, Asia, or Oceania.

Prerequisite(s): ANTH*1150

Restriction(s): ANTH*2420

ANTH*2260 Contemporary Native Peoples of Canada W (3-0) [0.50]

An analysis of the impact of Euro-Canadian society on native culture. Particular emphasis will be given to contemporary issues relating to Canadian native peoples (Indians, Inuit and Metis) such as education, treaties and reserves, land claims, government administration and economic development.

Prerequisite(s): ANTH*1150 or SOC*1100

ANTH*3400 The Anthropology of Gender W (3-0) [0.50]

This course will address theoretical innovation in the discipline of socio-cultural anthropology in the study of gender and feminist issues on the basis of cross-cultural ethnographic case studies. Theoretical problems such as gender inequality, complementarity, the domestic/public divide, ritual and symbolic valuations and the division of labour will be considered in the context of cultural relativity. (Offered in even-numbered years.)

Prerequisite(s): 10.00 credits including (ANTH*2160 or SOAN*2400), (SOAN*2120 or WMST*3000)

ANTH*3650 Prehistory of Canadian Native Peoples F (3-0) [0.50]

This is a course in Aboriginal studies which uses archaeological, ethnico-historical and contemporary research to examine the culture and social organization of First Nations peoples in Canada from their early beginnings to European contact.

Prerequisite(s): ANTH*2160, (ANTH*2230 or ANTH*2660)

Restriction(s): ANTH*2650

ANTH*3670 Indigenous Peoples: Global Context W (3-0) [0.50]

This course will focus on aboriginality as a political and cultural identity. Historical, political, and cultural similarities between indigenous peoples the world over will be traced and key issues such as assimilation, cultural survival, protection of the commons, and the environment and cultural identity within the nation state will be examined. International organizations of indigenous peoples will be considered as well as other forms of transnational assertions of common identity and resistance. (Offered in odd-numbered years.)

Prerequisite(s): (1 of ANTH*2160, ANTH*2230, ANTH*2660, SOC*2660, IDEV*2100, IDEV*2500), SOAN*2120

ANTH*3690 History of Anthropological Thought F (3-0) [0.50]

This course offers a historical survey of the main trends in anthropological theory from the 19th century to the present.

Prerequisite(s): ANTH*2160, ANTH*2230, SOAN*2120

ANTH*3770 Kinship and Social Organization W (3-0) [0.50]

This course will deal with the theoretical implications of the study of kinship systems for an analysis of human society in general, including a comparative study of the social organization of kinship-based societies.

Prerequisite(s): ANTH*2160, ANTH*2230, SOAN*2120

ANTH*3840 Seminar in Anthropology F,W (3-0) [0.50]

This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.

Prerequisite(s): 10.00 credits including ANTH*2160, SOAN*2120

ANTH*3850 Seminar in Anthropology F,W (3-0) [0.50]

This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.

Prerequisite(s): 10.00 credits including ANTH*2160, SOAN*2120

ANTH*3950 Special Projects in Anthropology S,F,W (3-0) [0.50]

This special study option/reading course is designed to provide advanced undergraduates with an opportunity to explore independently the frontiers and foundations of a field of knowledge. Under supervision, the student will study in greater depth topics related to regular upper-level courses offered in the department which the student has taken or is taking. Permission of the instructor who will be supervising the study is required.

Prerequisite(s): 10.00 credits

Restriction(s): Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.

ANTH*4300 Ethnography F (3-0) [0.50]

This course offers a survey of ethnographic studies on selected cultural/geographical areas of the world. Topics covered may include social, economic and political systems, the colonial encounter, and the theoretical, methodological and political contexts of ethnographic representation. Focus may be given to such areas as Latin America, Sub-Saharan Africa, Asia, or Oceania.

Prerequisite(s): ANTH*1150 or SOC*1100

ANTH*4540 Seminar in Anthropology F,W (3-0) [0.50]

This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.

Prerequisite(s): 10.00 credits including ANTH*2160, SOAN*2120

ANTH*4640 Culture, Rights and Development W (3-0) [0.50]

This course examines the theoretical and practical problems associated with respecting local cultures while also respecting human dignity universally. Various definitions of 'development' will be explored in terms of how they reflect cultural values and global inequalities.

Prerequisite(s): 12.50 credits including ANTH*3690, SOAN*3070

ANTH*4540 Seminar in Anthropology F,W (3-0) [0.50]

This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.

Prerequisite(s): 12.50 credits including (ANTH*3690 or SOC*3310), SOAN*3070
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lecture</th>
<th>Lab</th>
<th>Tutorial</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ANTH*4640</td>
<td>Seminar in Anthropology</td>
<td>F,W</td>
<td>3-0</td>
<td>0.50</td>
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<tr>
<td>ANTH*4700</td>
<td>Issues in Contemporary Anthropological Theory</td>
<td>W</td>
<td>3-0</td>
<td>0.50</td>
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<tr>
<td>ANTH*4740</td>
<td>Seminar in Anthropology</td>
<td>F,W</td>
<td>3-0</td>
<td>0.50</td>
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<tr>
<td>ANTH*4840</td>
<td>Seminar in Anthropology</td>
<td>F,W</td>
<td>3-0</td>
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<td>ANTH*4740</td>
<td>Seminar in Anthropology</td>
<td>F,W</td>
<td>3-0</td>
<td>0.50</td>
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<tr>
<td>ANTH*4840</td>
<td>Seminar in Anthropology</td>
<td>F,W</td>
<td>3-0</td>
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**ANTH*4640 Seminar in Anthropology F,W (3-0) [0.50]**
This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.

Prerequisite(s): 12.50 credits including (ANTH*3690 or SOC*3310), SOAN*3070

**ANTH*4700 Issues in Contemporary Anthropological Theory W (3-0) [0.50]**
This course critically examines current anthropological theories, which may include post-structuralism, post-modernism, neo-Marxism and processual approaches. Attention may also be given to the theoretical and political implications of constructionism and calls for ethnographic reflexivity.

Prerequisite(s): 12.50 credits including ANTH*3690, SOAN*3070

**ANTH*4740 Seminar in Anthropology F,W (3-0) [0.50]**
This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.

Prerequisite(s): 12.50 credits including (ANTH*3690 or SOC*3310), SOAN*3070

**ANTH*4840 Seminar in Anthropology F,W (3-0) [0.50]**
This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.

Prerequisite(s): 12.50 credits including (ANTH*3690 or SOC*3310), SOAN*3070

**ANTH*4880 Special Projects in Anthropology S,F,W (3-0) [0.50]**
This special study/reading course option is designed to provide advanced undergraduates with an opportunity to explore independently the frontiers and foundations of a field of knowledge. Under supervision, the student will study in greater depth topics related to regular upper-level courses offered in the department which the student has taken or is taking. Permission of the instructor who will be supervising the project is required.

Prerequisite(s): 12.50 credits
Restriction(s): Instrucor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.

**ANTH*4890 Special Projects in Anthropology S,F,W (3-0) [0.50]**
This special study/reading course option is designed to provide advanced undergraduates with an opportunity to explore independently the frontiers and foundations of a field of knowledge. Under supervision, the student will study in greater depth topics related to regular upper-level courses offered in the department which the student has taken or is taking. Permission of the instructor who will be supervising the project is required.

Prerequisite(s): 12.50 credits
Restriction(s): Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.

**ANTH*4900 Honours Anthropology Thesis I S,F,W (3-0) [0.50]**
Development and design of an honours thesis proposal conducted under the supervision of a faculty member. Recommended to honours major students.

Prerequisite(s): 15.00 credits including ANTH*3690, (SOAN*3070 or SOAN*3120)
Restriction(s): Instructor consent required. As well as a cumulative average of 70% in all Sociology and Anthropology courses.

**ANTH*4910 Honours Anthropology Thesis II S,F,W (3-0) [0.50]**
Completion and presentation of honours thesis.

Prerequisite(s): ANTH*4900
Restriction(s): Instructor consent required.
Art History

School of Fine Art and Music

Students with a special interest in particular courses in Art History should consult the School concerning prerequisites.

1. Some Art History lecture courses at the 2000- and 3000-level are offered on alternate years only and many Art History seminars have variable content. For course offerings and course descriptions please see the home page for the School of Fine Arts & Music www.uoguelph.ca/sofam/

2. Many Art History lecture courses are reading-intensive while seminar courses are writing and presentation-intensive.

3. Honours major students in Art History are required to take two 4000-level seminars (excluding ARTH*4620), preferably in their 7th and 8th semesters. Please see the individual course descriptions for pre-requisites and restrictions for these courses.

ARTH*1220 The Visual Arts Today F (3-0) [0.50]

An introduction to contemporary visual culture, its current controversies and its historical roots. The avant-garde movements of the modern period and the impact of new technologies and media will be examined within a rich historical context. Topics will include international exhibitions, selling art, art and popular culture, censorship, and the relation between words and images.

ARTH*1510 Art Historical Studies I F (3-0) [0.50]

This course considers the visual arts in the Western tradition from prehistory through the Middle Ages. Emphasis will be placed on historical and critical analysis of key monuments and on the prerequisite technologies, as well as on various ways of looking at the visual past and present.

ARTH*1520 Art Historical Studies II W (3-0) [0.50]

A consideration of the visual arts in the Western tradition. Emphasis will be placed on historical and critical analysis of key monuments and on the prerequisite technologies, as well as on various ways of looking at the visual past and present. Focus will be on the visual arts from the Renaissance to today.

ARTH*2050 Modern Latin American Art F (3-0) [0.50]

This course is an exploration of Latin American art in the context of cultural, social and political experience, with emphasis on the work of the painter Frida Kahlo, the Mexican muralists, performance artists Guillermo Gomez-Pena and Coco Fusco, and other important contemporary artists who have represented identity, culture, and political experience as complex and multifaceted because they have lived between nations and cultures. (Offered in odd-numbered years.)

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2060 Aboriginal Arts in the Americas F (3-0) [0.50]

An introduction to the aboriginal cultures of North, South, and Central America with special emphasis on the pre-contact period. The interdisciplinary approach will take into account recent debates about methodology, ethnocentricity, and aboriginal viewpoints.

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2070 Art of the USA W (3-0) [0.50]

In art, the 20th century has been referred to as "The American Century." Artists in the USA have a tradition of creating new visual languages, of using new ideas and technologies, and of representing the vanguard. Where did these ideas originate, and how has the USA determined our notions of what art is? This survey course focuses on modern American artists, on the evolution and growth of modern visual culture, and on how technologies and societies impact on artistic taste.

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2120 Introduction to Museology W (3-0) [0.50]

The course will examine the history of collections, traditions of cultural representation and display, constructions of authenticity, trade and exchange. (Offered in odd-numbered years.)

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2150 Art and Archaeology of Greece F (3-0) [0.50]

A survey of Ancient Greek Art and Archaeology, with stress on form and function and stylistic trends and aesthetic values. The course will illuminate the cultural, social, and political life in Ancient Greece. (Also listed as CLAS*2150).

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

Equates to: CLAS*2150

ARTH*2280 Modern Architecture W (3-0) [0.50]

An investigation of architectural theory and practice within the social and spatial complexities of national and international life.

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2290 History of Photographic Media S (3-0) [0.50]

An introduction to the history of photography through to its application in contemporary visual arts. (Offered through Distance Education only.)

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2480 Introduction to Art Theory and Criticism F (3-0) [0.50]

This course provides an overview of some of the most significant methodological approaches and critical practices used by art historians to write about visual culture. Traditional methods of art historical analysis include connoisseurship, iconography, and formalism. With these we will be exploring newer interpretive models and multidisciplinary approaches such as structuralism, semiotics, post-structuralism, and psychoanalytic theory as well as political theories such as feminism and socio-cultural theory. (Offered in odd-numbered years.)

Prerequisite(s): 2 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2490 History of Canadian Art F (3-0) [0.50]

An overview of the visual arts in Canada from the earliest times to the present, with emphasis on the diverse contributions made by the First Nations, by French and British colonization, and by subsequent settlers from a variety of different cultural origins.

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2540 Medieval Art F (3-0) [0.50]

This course considers visual arts during a period when the Christian church built a new synthesis out of the legacies of the late Roman Empire and its "barbarian invaders".

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2580 Late Modern Art: 1900-1950 F (3-0) [0.50]

A study of the historical avant-gardes in the social and political contexts of the period 1900-1950. (Offered in even-numbered years.)

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2600 Early Modern Art to 1900 W (3-0) [0.50]

A study of visual culture as it was transformed by the revolutions - industrial, political, and colonial - of the eighteenth and nineteenth centuries. (Offered in even-numbered years.)

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2950 Baroque Art W (3-0) [0.50]

The visual arts in an age of religious crisis and the growth of great trading empires will be examined. (Offered in odd-numbered years.)

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*3010 Contemporary Canadian Art W (3-0) [0.50]

The wide range of contemporary Canadian visual arts, from painting to new technological media, from 'high' culture to punk, will be examined in the context of specifically Canadian social and historical conditions during the modern and post-modern periods.

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

ARTH*3050 Pre-Columbian Art W (3-0) [0.50]

This course investigates the history and artistic traditions of pre-contact America with special focus on selected cultural areas. The course will bring together such perspectives as archaeology, art history and ethnography. (Offered in even-numbered years)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

ARTH*3060 Public Art W (3-0) [0.50]

This course investigates what constitutes the "public" and the "private" domain in the arenas of art and visual culture. Provocative iconography, matters of race, nationality, sexuality, language, and identity in artistic practice, issues of censorship, controversial shows and exhibitions, the ethics of propriety and impropriety will be considered. Artists such as Linda Montano, Andres Serrano, Keith Haring, Annie Sprinkle, Robert Mapplethorpe and others will be discussed. (Offered in odd-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

ARTH*3100 Perspectives: Structure & Space in Western Art F (3-0) [0.50]

This course investigates the visual arts in Europe with special emphasis on issues of illusionism, mimesis, and the representation of space. (Offered in even-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.
ARTH*3150 Space: Roman Art and Urbanism W (3-0) [0.50]

Roman art and urbanism from the Early Republic to the end of the imperial period. The course will survey the developments of Roman art with an emphasis in architecture, sculpture and painting. It will illuminate the development of the urban space in the context of cultural, social and political life. (Also listed as CLAS*3150). (Offered in even-numbered years.)

Equate(s): CLAS*3150
Restriction(s): ARTH*3530, ARTH*4500

ARTH*3200 Colour: Practice & Meanings in Western Art W (3-0) [0.50]

This course explores the role colour has played in the work of selected artists and periods. (Offered in odd-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

ARTH*3210 Critical Issues in Art History F (3-0) [0.50]

This course investigates art and its histories. Art writing, art history, and art historical methodology will be examined through the work of key art historians, cultural critics, and philosophers such as Clement Greenberg, Rosalind Krauss, Griselda Pollock, and Jacques Derrida for example. Critical issues such as intention and reception, authorship, creativity and originality will be discussed. (Offered in odd-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

ARTH*3220 Nationalism & Identity in Art F (3-0) [0.50]

This course considers issues of identity formation and representation as they intersect with the agendas and interests of the nation state. The course looks at questions of power and exclusion, theories of representation and notions of centre/periphery, cultural hybridity and border-crossing in the age of globalization. It will examine the representation of identity in cultural institutions (including museums, and international art events) in cultural policy, and in cultural forms (fine art and popular culture, journals and periodicals). (Offered in even-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

ARTH*3310 Image: Pictures & Their Power W (3-0) [0.50]

This course examines the role that images play in conveying religious, political and aesthetic messages, and how these powerfully reveal themselves in forms of iconophobia and iconophilia. (Offered in even-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

Equate(s): ARTH*3540

ARTH*3320 Lives: Aspects of Western Art W (3-0) [0.50]

This course examines how the theory and practice of art history has often been informed by biography and other constructions of stereotypes and social practices concerning the 'artist', the artist's audiences, and the various contexts that inform artists' lives, real and imagined. (Offered in odd-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

Equate(s): ARTH*3550

ARTH*3330 Display: Visual Culture in Western Europe W (3-0) [0.50]

This course examines the politics of visual representation in various contexts and how it shapes the meaning of artworks. An interpretation of culture through liturgical display, museums, cabinets of curiosities, tourist art, World's Fairs and shopping mall will be considered. (Offered in even-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

Equate(s): ARTH*3550

ARTH*3340 The Art Object & Material Culture F (3-0) [0.50]

This course considers selected topics in the visual arts in Italy, Spain and France, with attention to questions of the political, social, economic, gendered, and aesthetic meanings of works of art. (Offered in odd-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

Equate(s): ARTH*3640

ARTH*3460 English Art, 1750 to Present F (3-0) [0.50]

In conjunction with the London Semester, this course will survey the visual arts in England from the mid-18th century to the present. Visits to galleries, museums, libraries, studios, and other cultural institutions will supplement lectures and stress the experience of actual works of art.

Prerequisite(s): Admission to London Semester

ARTH*3520 Idea: Art Since 1950 F (3-0) [0.50]

An analysis of the visual arts of painting, sculpture, photographic media and non-traditional media World War II to the present. Selected artists of North America and Western Europe will be considered, as well as the institutions of the art world.

Prerequisite(s): 10.00 credits including 2.00 credits in Art History

ARTH*3780 Gender and Art W (3-0) [0.50]

This course considers how the practice and reception of the visual arts intersect with constructs of gender in contemporary and historical contexts. (Offered in odd-numbered years.)

Prerequisite(s): 10.00 credits including 2.00 credits in Art History.

ARTH*4310 Topics in Art & Visual Culture I W (3-0) [1.00]

This seminar course is designed to explore one or more issues in Art and Visual Culture (the America's) depending on the expertise of the instructor. Students should consult the department for specific offerings.

Prerequisite(s): A minimum of 14.00 credits including 2.50 credits in Art History.

Restriction(s): ARTH*4050 Registration is limited to students registered in the Art History or Studio Art specializations with an average of 70% in all ARTH and SART course attempts.

ARTH*4320 Topics in Art & Visual Culture II F (3-0) [1.00]

This seminar course is designed to explore one or more issues in Art and Visual Culture (the America's) depending on the expertise of the instructor. Students should consult the department for specific offerings.

Prerequisite(s): A minimum of 14.00 credits including 2.50 credits in Art History.

Restriction(s): ARTH*4060 Registration is limited to students registered in the Art History or Studio Art specializations with an average of 70% in all ARTH and SART course attempts.

ARTH*4330 Topics in Art & Visual Culture III W (3-0) [1.00]

This seminar course is designed to explore one or more issues in Art and Visual Culture (Western Art) depending on the expertise of the instructor. Students should consult the department for specific offerings.

Prerequisite(s): A minimum of 14.00 credits including 2.50 credits in Art History.

Restriction(s): ARTH*4150 Registration is limited to students registered in the Art History or Studio Art specializations with an average of 70% in all ARTH and SART course attempts.

ARTH*4340 Topics in Art & Visual Culture IV F (3-0) [1.00]

This seminar course is designed to explore one or more issues in Art and Visual Culture (Western Art) depending on the expertise of the instructor. Students should consult the department for specific offerings.

Prerequisite(s): A minimum of 14.00 credits including 2.50 credits in Art History.

Restriction(s): ARTH*4160 Registration is limited to students registered in the Art History or Studio Art specializations with an average of 70% in all ARTH and SART course attempts.

ARTH*4350 Topics in Art & Visual Culture V F (3-0) [1.00]

This seminar course is designed to explore one or more issues in Art and Visual Culture (Questions in Criticism) depending on the expertise of the instructor. Students should consult the department for specific offerings.

Prerequisite(s): A minimum of 14.00 credits including 2.50 credits in Art History.

Restriction(s): ARTH*4550 Registration is limited to students registered in the Art History or Studio Art specializations with an average of 70% in all ARTH and SART course attempts.

ARTH*4600 Individual Study - Art History S,F,W (3-0) [0.50]

Each student establishes, in consultation with the faculty member chosen, the content of this special study within the area of expertise of that instructor.

Restriction(s): This course is available with the approval of the Director for students who have completed their 5th semester and for whom there is no suitable course available.

ARTH*4620 Museum Studies F (3-0) [0.50]

This seminar course will be offered in conjunction with the staff and facilities of the Macdonald Stewart Art Centre and will deal with historical matters relating to the role of the art museum in western life and the critical day-to-day management of a contemporary one. Students will participate, when possible, in the preparation of a current or forthcoming exhibition in the Centre.

Prerequisite(s): A minimum of 14.00 credits including 2.50 credits in Art History.

Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations with an average of 70% in all ARTH and SART course attempts.
**ARTH*4800 Experiential Learning F,W (3-0) [0.50]**

This course provides an opportunity for independent study based on Art History related voluntary or paid experience. Evaluation will be based on the student’s performance on related work assignments at the host institution as well as any assignments determined by the relevant instructor. Written proposals/rationales, signed by the appropriate instructor, must be submitted to the Director of the School for approval by the last day of course selection in the Fall (for Winter) or Winter (for the following Fall semester).

**Prerequisite(s):** A minimum of 14.00 credits including 2.50 credits in Art History.

**Restriction(s):** Registration is limited to students registered in BA:ARTH specializations with a minimum cumulative average of 70% in all Art History course attempts. Instructor consent is required.

**ARTH*4850 Honours Thesis I S,F,W (0-9) [0.50]**

Under the guidance of a faculty member over two semesters (ARTH*4850 in the first semester and ARTH*4860 in the second semester), the honours student will research and complete a major independent project in art history or criticism for final approval by a faculty member. Recommended for all honours students.

**Restriction(s):** Registration in semester 7 or 8 and a cumulative average of 70% in Studio and Art History courses. Instructor consent and approval of the Director required.

**ARTH*4860 Honours Thesis II S,F,W (0-9) [0.50]**

Under the guidance of a faculty member over two semesters (ARTH*4850 in the first semester and ARTH*4860 in the second semester), the honours student will research and complete a major independent project in art history or criticism for final approval by a faculty member. Recommended for all honours students.

**Prerequisite(s):** ARTH*4850

**Restriction(s):** Instructor consent and approval of the Director required.
XII. Course Descriptions, Arts and Sciences

Dean's Office, College of Arts

Registration in the BAS degree program.

ASCI*1000 Society and Science I: Historical Perspectives F (3-0) [0.50]
This course explores historically the complex interrelations between science and society. It focuses on the ways in which science has both shaped, and been shaped by, its larger social and cultural contexts.

Prerequisite(s): HIST*1250. Registration in the BAS degree program.

ASCI*1010 Society and Science II: Current Issues W (3-0) [0.50]
This interdisciplinary course examines scientific and technological activities in modern society, including a number of current controversies. Case studies and debates will be used to examine the multiplicity of impacts and reactions to these activities.

Prerequisite(s): ASCI*1000
Registration in the BAS degree program.

ASCI*2000 Modes of Inquiry and Communication Across Disciplines F (3-0) [0.50]
This course considers the process of inquiry and quest for knowledge in the natural and applied sciences, and the social sciences and humanities as they are constituted as disciplines within the modern university. The course will consider the social forces that shape inquiry, including funding for research, and consider the communication of findings, both inside and outside the academy.

Prerequisite(s): ASCI*1000
Restriction(s): Registration in the BAS degree program.

ASCI*3000 Arts and Sciences Community Project F (3-0) [0.50]
This course integrates the curricular, co-curricular and cross-disciplinary strands of the Arts and Sciences program through continued academic study and its application, modification, and critique in a community context. Students will conduct research and seminars on a selected topic while simultaneously completing a placement in a community agency appropriate to that topic. (See the B.A.S. program website for topics.)

Prerequisite(s): ASCI*2000
Restriction(s): Registration in the BAS degree program.

ASCI*3100 Case Studies in Arts and Sciences Research W (3-0) [0.50]
This variable-content course introduces students to case studies in the integration of academic knowledge and practices with social movements, investigating the ways in which cultural, social, and scientific endeavours meet to work on real-world problems. The course may contain both historical and current case studies.

Prerequisite(s): ASCI*2000
Restriction(s): Registration in the BAS degree program.

ASCI*3200 Issues in Public Health S (3-0) [0.50]
This course examines the practice of public health in Canada, and throughout the world, with an emphasis on the impact of social and political forces on matters relating to public health. As well, the course considers strategies for the delivery of initiatives to safeguard the health of the public. (Offered in Distance Education only.)

Prerequisite(s): 8.50 credits

ASCI*3700 Independent Studies in Arts/Sciences S,F,W (3-0) [0.50]
This course offers an opportunity for individual students to pursue unique curricular opportunities when they arise and are approved as appropriate to B.A.S. students. (e.g., independent reading and/or research under faculty member's supervision in a research lab or program; a course taken while studying on exchange or abroad; a course developed in conjunction with experiential learning situations, etc.) See the B.A.S. website for learning contracts and other requirements that must be completed well in advance to permit registration for independent studies.

Prerequisite(s): A minimum of 9.00 credits.
Restriction(s): Registration in the BAS degree program. Instructor consent required.

ASCI*4010 Arts and Sciences Honours Research Seminar W (3-0) [1.00]
Under faculty supervision students will devise and research a topic, and then plan, develop, peer-edit and complete a major paper. Designed to function as a senior-level writing seminar, this course is particularly recommended to students who plan to pursue graduate study and who have a cumulative average of at least 75%.

Prerequisite(s): 12.00 credits, including (1 of ASCI*3000, ASCI*3100, ASCI*3200, ASCI*3700); cumulative average of 75%
Restriction(s): ASCI*4000 Registration in the BAS degree program.

ASCI*4020 Topics in Arts and Sciences Research F,W (3-0) [0.50]
This variable-content course provides a senior-level seminar experience in the conduct, presentation, and writing of research relevant to the interdisciplinary core of the Bachelor of Arts and Sciences degree program. (See the B.A.S. website for topics.)

Prerequisite(s): 12.00 credits including ASCI*2000
Restriction(s): Registration in the BAS degree program.

ASCI*4030 Topics in Arts and Sciences F,W (3-0) [0.50]
This variable-content course provides a senior-level seminar experience in the conduct, presentation, and writing of research relevant to the interdisciplinary core of the Bachelor of Arts and Sciences degree program. (See the B.A.S. website for topics.)

Prerequisite(s): 12.00 credits including ASCI*2000
Restriction(s): Registration in the BAS degree program.

ASCI*4700 Independent Studies in Arts/Sciences S,F,W (3-0) [0.50]
This course offers an opportunity for individual students to pursue unique curricular opportunities when they arise and are approved as appropriate to B.A.S. students (e.g., independent reading and/or research under a faculty member's supervision in a research lab or program; a course taken while studying on exchange or abroad; a course developed in conjunction with experiential learning situations, etc.) See the B.A.S. website for learning contracts and other requirements that must be completed well in advance to permit registration for independent studies.

Prerequisite(s): A minimum of 14.00 credits.
Restriction(s): Registration in the BAS degree program. Instructor consent required.

ASCI*4710 Independent Studies in Arts/Sciences S,F,W (3-0) [0.50]
This course continues work undertaken in ASCI*4700, and will normally be planned in concert with planning for ASCI*4700. This course offers an opportunity for individual students to pursue unique curricular opportunities when they arise and are approved as appropriate to B.A.S. students. See the B.A.S. website for learning contracts and other requirements that must be completed well in advance to permit registration for independent studies.

Prerequisite(s): ASCI*4700
Restriction(s): Registration in the BAS degree program. Instructor consent required.
# Biochemistry

## Department of Molecular and Cellular Biology

### BIOC*2580 Introduction to Biochemistry S,F,W (3-3) [0.50]

This course introduces students to the evolution, chemical structure, and biological roles of the major molecular components of the cell: including proteins, nucleic acids, lipids, and carbohydrates. Topics and processes integrated through understanding biological macromolecules include enzymology and intermediary metabolism, with emphasis on catabolic processes. Students will gain basic investigative skills through hands-on experiences in a laboratory setting.

**Prerequisite(s):** CHEM*1050 or CHEM*2300

### BIOC*3560 Structure and Function in Biochemistry F,W (3-0) [0.50]

This course develops the understanding of biochemical processes by examining the molecular mechanisms underlying the regulation of specific cellular and physiological systems. Examples may include: oxygen binding and transport; regulation of enzyme function; carbohydrate and lipid metabolic pathways and metabolic integration; structure of membranes and membrane proteins; and membrane transport and signaling.

**Prerequisite(s):** BIOC*2580

### BIOC*3570 Analytical Biochemistry S,F (3-4) [0.75]

This course covers the tools and techniques by which biological molecules are isolated, separated, identified, and analyzed. Detailed discussion of experimental methods for macromolecule purification and characterization is included.

**Prerequisite(s):** (CHEM*2400 or CHEM*2480), BIOC*2580

**Restriction(s):** MICR*3110

### BIOC*4520 Metabolic Processes F (3-0) [0.50]

This course is an in-depth study of the role of bioenergetics, regulation, and chemical mechanisms in carbohydrate, lipid, and nitrogen metabolism.

**Prerequisite(s):** BIOC*3560 or BIOC*3570

### BIOC*4540 Enzymology W (3-3) [0.75]

This is a laboratory-intensive course where the topics studied include enzyme active sites and the mechanisms of enzyme action; enzyme kinetics and regulation; recombinant proteins and site-directed mutagenesis as tools for understanding enzymes.

**Prerequisite(s):** BIOC*3560 (may be taken concurrently), BIOC*3570

### BIOC*4580 Membrane Biochemistry W (3-0) [0.50]

This course is a molecular examination of the structure and functions of cell membranes, cell surfaces and associated structures. Topics may include: membrane lipids; membrane protein structure; membrane transporters; ATP production; cytoskeleton; cell surface carbohydrates; membrane biogenesis; signal transduction.

**Prerequisite(s):** BIOC*3560 or BIOC*3570
Biology

Department of Human Health and Nutritional Sciences
Department of Integrative Biology
Department of Molecular and Cellular Biology
Department of Plant Agriculture

BIOL*1020 Introduction to Biology F (3-2) [0.50]
This course will introduce important concepts concerning the organization of life, from cells to ecosystems. The dynamic and interactive nature of all living systems will be emphasized. This course will be valuable for students without Grade 12 or 4U Biology who are interested in environmental issues, medicine, advances in biotechnology and related topics. Department of Integrative Biology.
Restriction(s): BIOL*1030, BIOL*1040, BIOL*1070, BIOL*1080, BIOL*1090

BIOL*1030 Biology I F (3-3) [0.50]
A lecture and laboratory course which introduces the concepts and controversies in contemporary biology and their implications. Using an integrative approach, the course examines some of the basics of biology and two of the common challenges of life, acquisition and processing of nutrients and information flow. How these challenges are faced by animals, microbes and plants and the diversity of structures and processes that have evolved in response to them will be discussed. This is the first course in a two course biology series. Material from BIOL*1030 will be referred to in BIOL*1040 to emphasize the integrated nature of biology. Students lacking Grade 12 or 4U Biology should consult with their program counsellor prior to taking BIOL*1030.
Restriction(s): Registration in the BBRM
Location(s): Kemptville, Ridgetown

BIOL*1040 Biology II W (3-3) [0.50]
A continuation of BIOL*1030. A lecture and laboratory course which continues with additional challenges of life faced by animals, microbes and plants and the diversity of structures and processes that have evolved in response to them. To indicate the value of biology to society, some topical issues in biology will be addressed. Materials introduced in BIOL*1030 will be built on and referred to in BIOL*1040.
Prerequisite(s): BIOL*1030
Restriction(s): Registration in the BBRM
Location(s): Kemptville, Ridgetown

BIOL*1050 Biology of Plants & Animals in Managed Ecosystems F (3-2) [0.50]
In this course students will investigate the biology of plants and animals in the context of agroecosystems and other managed ecosystems. Students will learn about the form and function of plants and animals and interactions between organisms and their environments. The course strongly emphasizes participatory and self-directed learning, problem solving, reasoning and exposure to primary research literature and will address key concepts in evolution, plant and animal structure, physiology and ecology. Students lacking Grade 12 or 4U Biology should consult with their program counsellor prior to taking BIOL*1050 in first semester. Departments of Plant Agriculture and Department of Animal and Poultry Science.
Restriction(s): BIOL*1030, BIOL*1040
Location(s): Kemptville, Ridgetown, Guelph

BIOL*1070 Discovering Biodiversity F,W (3-0) [0.50]
This course strongly emphasizes the development of learning and reasoning skills, an understanding of the nature of biological inquiry, and key concepts in evolution, ecology, and organismal biology. These include the meaning and significance of biodiversity and current issues surrounding it, the evolutionary processes through which biological diversity originates and is interrelated, the complexity of organisms and the importance of physical organization and regulatory processes, and the nature of interactions among organisms and between organisms and their biotic and abiotic environments. Students lacking Grade 12 or 4U Biology should consult with their program counsellor prior to taking BIOL*1070 in first semester.
Restriction(s): BIOL*1030, BIOL*1040

BIOL*1080 Biological Concepts of Health F,W (3-1) [0.50]
This course will define the physiology of the individual as the biological foundation of health and focus on selected studies of health and illness in the adult human. Students will derive an understanding of the biological foundation of their own health as an adult and will be encouraged to expand the concepts and processes of individual health to human populations, animals and the environment. Through lectures, laboratories, small group tutorials and an individual research project, students will gain an introduction to research in the health sciences. Students lacking Grade 12 or 4U Biology should consult with their program counsellor prior to taking BIOL*1080 in first semester.
Restriction(s): BIOL*1030, BIOL*1040

BIOL*1090 Introduction to Molecular and Cellular Biology F,W (3-0) [0.50]
This course will foster an understanding of key concepts in molecular and cell biology and genetics including evolution, relationship between structure and function, energy and regulation, interrelatedness of life, and the nature of science. By relating these concepts to their daily lives, through analysis of problems and tutorial discussions, students will develop an understanding of five central themes: 1) all living things share common properties, 2) the cell is the fundamental functional unit of life, 3) managing energy is central to success, 4) genes are the fundamental information unit of life, and 5) heredity. Students lacking Grade 12 or 4U Biology should consult with their program counsellor prior to taking BIOL*1090 in first semester.
Restriction(s): BIOL*1030, BIOL*1040

BIOL*1500 Humans in the Natural World S,F,W (3-0) [0.50]
This course will examine past and present human interactions with Nature from an ecological perspective. It investigates current global issues that require multi-disciplinary environmental analysis. Department of Integrative Biology. (Also offered through Distance Education format.)
Equate(s): ZOO*1500
Restriction(s): Students in the BSC program cannot take this course for credit. This course may not count toward the requirements for the biology minor.

BIOL*2060 Ecology S,F,W (3-1) [0.50]
This course discusses the ecology of plants, animals, fungi and bacteria as individual organisms, interacting populations, communities and ecosystems. Lectures and discussions groups are used to demonstrate the difficulty of interpreting ecological data derived from field studies. The value of laboratory-based research in ecology will also be discussed. The course will be important for anyone who wishes to understand what we know and need to know about the way ecological systems work. Department of Integrative Biology. (Also offered through Distance Education format.)
Prerequisite(s): 4.00 credits including (BIOL*1040 or BIOL*1070)
Restriction(s): BIOL*3110, BIOL*3120

BIOL*2400 Evolution F,W (3-0) [0.50]
This course provides a broad overview of evolutionary biology. It examines the concepts and mechanisms that explain evolutionary change and the evolution of biological diversity at different levels of biological organization (gene to ecosystem) and across space and time. It also introduces historical forms of scientific inquiry, unique to biology. The course is designed to be of interest to students with general interests in science and in research in all areas of biology. Department of Integrative Biology.
Prerequisite(s): BIOL*1040 or (BIOL*1070, BIOL*1090)
Restriction(s): BIOL*3400, ZOO*3300

BIOL*3010 Laboratory and Field Work in Ecology F (0-6) [0.50]
This course emphasizes field and laboratory work in ecology. Students will gain experience with experimental designs, sampling, analysis and interpretation of data collected to answer ecological questions. Local field sites will be used to run in-course experiments. Critical thinking about ecological issues relevant to society will be emphasized. Department of Integrative Biology.
Prerequisite(s): BIOL*2060, (STAT*2400 or STAT*2230)

BIOL*3020 Population Genetics F (3-2) [0.50]
This course is designed to explore the concepts of random mating, inbreeding, random drift, assortative mating and selection as they relate to natural populations. The dynamic genetic structure of populations and its relationship to the process of speciation is examined. The role and significance of molecular genetics as it relates to population genetics, evolution, systematics and phylogeny is also considered. Department of Integrative Biology.
Prerequisite(s): MBG*2000 or MBG*2040
Equate(s): MBG*3000

BIOL*3110 Population Ecology E,W (3-1) [0.50]
This course will explore the structure and dynamics of animal and plant populations. The first part of the course will focus on demographic characteristics of populations and simple models of population growth and natural regulation. The second part of the course will concentrate on a variety of population processes, including predator-prey interactions, spatial dynamics, and disease-host interactions, and consider how these processes affect population dynamics. A quantitative approach emphasizing the use of mathematical models, graphical analysis, and statistics will provide the basic conceptual framework, which will be illustrated by selected case studies. Department of Integrative Biology.
Prerequisite(s): BIOL*2060, (MATH*1080 or MATH*1200), (STAT*2040 or STAT*2230)

Last Revision: Oct. 19, 2012
2012-2013 Undergraduate Calendar
BIOL*3120 Community Ecology W (3-1) [0.50]
This course will examine the structure and dynamics of communities, and will deal with both theoretical and applied aspects of community ecology. Emphasis is on the modern quantitative view of community ecology and on the development of problem-solving skills. Department of Integrative Biology.
Prerequisite(s): BIOL*2060 or BIOL*3110

BIOL*3130 Conservation Biology W (3-0) [0.50]
This course is an introduction to the biological basis for conserving wild, living resources, including freshwater and marine fish, plants and wild life. Topics to be covered include principles of population, community and landscape genetics and ecology relevant to the conservation, restoration and management of endangered species, ecosystems and/or renewable resources, including an introduction to the theory and practice of sustained-yield harvesting. Department of Integrative Biology.
Prerequisite(s): BIOL*2060 or BIOL*3110

BIOL*3300 Applied Bioinformatics W (3-2) [0.50]
This course covers current methods for making use of large molecular data sets to identify the genes that control traits, to characterize genes' functions, and to infer genetic relationships among individuals. It focuses on case studies and current research in agriculture and medicine to introduce molecular data analysis methods, including analyzing molecular markers, constructing nucleotide and protein sequence alignments, constructing phylogenies, and finding motifs and genes in biological sequences. Lab sessions include an introduction to Unix and Perl for the biologist and hands-on use of several molecular data analysis programs. Department of Plant Agriculture.
Prerequisite(s): (MBG*2020 or MBG*2040), STAT*2040

BIOL*3450 Introduction to Aquatic Environments F (3-0) [0.50]
This course provides an introduction to the structure and components of aquatic ecosystems, how they are regulated by physical, chemical and biological factors, and the impact of humans on these environments and their biota. Laboratory periods will centre around computer-based exercises and simulation of aquatic systems. Department of Integrative Biology.
Prerequisite(s): (BIOL*1040 or BIOL*1070), CHEM*1050, (1 of BIOL*2300, ZOO*2070, ZOO*2700 is strongly recommended)

BIOL*4010 Adaptable Physiology W (3-0) [0.50]
This course examines adaptations of organisms to various aquatic and terrestrial environments. A mechanistic approach will be used to establish the strategies (anatomical, physiological, biochemical) of environmental adaptation. Examples will include adaptations of deep-sea and polar organisms, adaptations to salinity and desiccation challenges, oxygen availability, sensory adaptations and symbiotic adaptations. Department of Integrative Biology.
Prerequisite(s): ZOO*3210
Equate(s): BIOL*4010

BIOL*4100 Molecular Evolution and Phylogenetics F (2-2) [0.50]
This course is designed to provide students with an appreciation for the uses of molecular data in the study of evolutionary processes. An overview of the principles of molecular data analysis using a phylogenetic approach will be given. In addition, the importance of incorporating evolutionary history into biodiversity research and other applied topics will be emphasized. Laboratory sessions will be devoted to practical training in analytical tools using specialized computer software, and for student presentation of independent research projects. The course will involve practical training in molecular data analysis using a phylogenetic approach and discussion of current topics from the primary literature. Department of Integrative Biology.
Prerequisite(s): 1 of BIOL*2400, BIOL*3400, ZOO*3300

BIOL*4110 Ecological Methods F (3-3) [1.00]
This course will examine the theoretical and practical aspects of research methods in ecology. Emphasis will be placed on experimental design, sampling, population estimation, statistical inference, and characteristics of producers and consumers. Students will participate in research projects of their own design, and will gain experience in preparing research proposals, research papers and posters, and making oral presentations. Department of Integrative Biology.
Prerequisite(s): BIOL*3010, (BIOL*3110 or BIOL*3120), (STAT*2040 or STAT*2230)

BIOL*4120 Evolutionary Ecology W (4-0) [0.50]
This course is an examination of common ecological circumstances faced by plants and animals and the morphological, behavioral and life history characteristics that have evolved in response. Particular emphasis will be placed on evolutionary processes and on adaptive aspects of thermoregulation, social and reproductive strategies. The course will emphasize both the theoretical basis and the empirical evidence for ecological adaptation. Department of Integrative Biology.
Prerequisite(s): BIOL*3110, (1 of BIOL*2400, BIOL*3400, ZOO*3300)

BIOL*4150 Wildlife Conservation and Management F (3-0) [0.50]
This course builds on previous courses in population and community ecology to evaluate the long-term dynamics of threatened populations in the context of human intervention. The course will also provide a "hands-on" introduction to computer modeling, with application to contemporary issues in population ecology and resource management. Lectures will be drawn from the following topics: growth and regulation of populations, long-term persistence of ecological communities, harvesting, bio-economics, and habitat modification. Department of Integrative Biology.
Prerequisite(s): BIOL*3110 or BIOL*3130
Restriction(s): ZOO*4110

BIOL*4350 Biology of Polluted Waters F (3-3) [0.50]
This is a practical course in biology of disturbed waters, and toxicity of pollutants to aquatic life. It's designed to familiarize students with the characteristics of polluted ecosystems, best methods of field survey, and procedures for toxicity tests. Department of Integrative Biology.
Prerequisite(s): BIOL*3450
Equate(s): ZOO*4350

BIOL*4410 Field Ecology F (3-3) [0.75]
This is a 12-day field course held in Algonquin Park, Ontario, during August. Students independently conduct and write reports about 2 research projects of their choice and design (in consultation with faculty members), on any of: vertebrate, invertebrate, or plant communities. The course will involve practical training in field methods of data collection and analysis. Department of Plant Agriculture.
Prerequisite(s): 20 credits in BIOL, including BIOL*3450
Equate(s): ZOO*4410
Restriction(s): Instructor consent required.

BIOL*4500 Natural Resource Policy Analysis W (3-0) [0.50]
This course explores the role of science in management decision-making for Canadian renewable natural resources, including legal, political, social and economic factors. The course will rely on active learning by students working in collaborative groups, leading to deeper understanding of real-world issues while developing professional skills that are essential for those who wish to make significant contributions at the science-management interface. Four themes will be explored: 1) acts/policies/guidelines, 2) science and other knowledge systems, 3) management strategy evaluation, and 4) decision analysis & adaptive management. Department of Integrative Biology.
Prerequisite(s): 15.00 credits including BIOL*4150
Restriction(s): Registration in Semester 7 or 8, BIOL*4040, ZOO*4050

BIOL*4610 Arctic Ecology F (1-6) [0.75]
This three-week field course provides an opportunity to study the flora and fauna of marine, freshwater and terrestrial environments of the high Arctic. Based in the high Arctic, the course includes lectures, field exercises and student projects. An information session is held in January; students are required to register before March. Signature of course coordinator is required for course selection. Students are responsible for cost of food and transportation. This course must be recorded as part of your Fall course selection and tuition and compulsory fees will be calculated accordingly. Students taking this course DO NOT use course numbers reserved for Ontario Universities Program in Field Biology. Detailed information is available from the Department of Integrative Biology. (Offered in even-numbered years.)
Prerequisite(s): BIOL*2060 or BIOL*3110
Equate(s): ZOO*4610
Restriction(s): Instructor consent required.

BIOL*4700 Field Biology S,F,W (1-6) [0.50]
Students may apply for 2-week courses in the OUPFB (Ontario Universities Program in Field Biology). This program offers a diversity of field courses in biological subjects ranging from the Arctic to the Tropics, microbes to mammals, and covering marine, freshwater and terrestrial habitats. Costs include food and lodging and may include transportation. Detailed information is available from the Department of Integrative Biology.
Prerequisite(s): BIOL*2060 or BIOL*3110
Equate(s): ZOO*4700
Restriction(s): Permission of the course coordinator. Instructor consent required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>BIOL*4710 Field Biology S,F,W (1-6) [0.25]</td>
<td>Students may apply for 1-week courses in the OUPFB (Ontario Universities Program in Field Biology). This program offers a diversity of field courses in biological subjects ranging from the Arctic to the Tropics, microbes to mammals, and covering marine, freshwater and terrestrial habitats. Costs include food and lodging and may include transportation. Detailed information is available from the Department of Integrative Biology.</td>
<td>BIOL<em>2060 or BIOL</em>3110</td>
<td>ZOO*4710</td>
</tr>
<tr>
<td>BIOL*4800 Field Biology S,F,W (1-6) [0.50]</td>
<td>Students may apply for 2-week courses in the OUPFB (Ontario Universities Program in Field Biology). This program offers a diversity of field courses in biological subjects ranging from the Arctic to the Tropics, microbes to mammals, and covering marine, freshwater and terrestrial habitats. Costs include food and lodging and may include transportation. Detailed information is available from the Department of Integrative Biology.</td>
<td>BIOL<em>2060 or BIOL</em>3110</td>
<td>ZOO*4800</td>
</tr>
<tr>
<td>BIOL*4810 Field Biology S,F,W (1-6) [0.25]</td>
<td>Students may apply for 1-week courses in the OUPFB (Ontario Universities Program in Field Biology). This program offers a diversity of field courses in biological subjects ranging from the Arctic to the Tropics, microbes to mammals, and covering marine, freshwater and terrestrial habitats. Costs include food and lodging and may include transportation. Detailed information is available from the Department of Integrative Biology.</td>
<td>BIOL<em>2060 or BIOL</em>3110</td>
<td>ZOO*4810</td>
</tr>
<tr>
<td>BIOL*4900 Field Biology S,F,W (1-6) [0.50]</td>
<td>Students may apply for 2-week courses in the OUPFB (Ontario Universities Program in Field Biology). This program offers a diversity of field courses in biological subjects ranging from the Arctic to the Tropics, microbes to mammals, and covering marine, freshwater and terrestrial habitats. Costs include food and lodging and may include transportation. Detailed information is available from the Department of Integrative Biology.</td>
<td>BIOL<em>2060 or BIOL</em>3110</td>
<td>ZOO*4900</td>
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Biomedical Sciences

Department of Biomedical Sciences

Some Biomedical Science courses are Priority Access Courses and enrollment may be restricted to particular programs or specializations. See department for more information.

Additional course listings may be found in the course descriptions for Toxicology and Veterinary Medicine.

BIOM*2000 Concepts in Human Physiology S,F,W (3-0) [0.50]
This is an introductory course that examines the fundamental integrative aspects of human physiological systems and their role in the maintenance of homeostasis. Course content is intended to serve the needs of non-bioscience students and includes the study of aspects of cellular metabolism, nerve and muscle function and general anatomy and function of the cardiovascular, respiratory, gastrointestinal, immune, central and peripheral nervous, endocrine, renal and reproductive systems. This course cannot be used to fulfill requirements for any biological science minor. (Also offered through Distance Education format.)

Restriction(s): ANSC*3080, BIOM*3100, BIOM*3200, HK*3940, ZOO*3200, ZOO*3210. Not available to BSC Students in biological science specialties.

BIOM*3000 Functional Mammalian Neuroanatomy W (3-2) [0.50]
The main objective of the course is to understand the functional organization of the mammalian nervous system. It includes a review of the major cell types found in the nervous system and an overview of the basic physiological principles of brain function followed by a detailed three dimensional and histological examination of the mammalian brain and spinal cord. Emphasis is placed on understanding the relationship between anatomy, physiology and behavior.

Prerequisite(s): 1 of BIOM*1300, BIOM*3200, HK*3940, PHYS*2030, PSYC*2410, ZOO*3200.

BIOM*3010 Comparative Mammalian Anatomy F (2-3) [0.50]
This lecture and laboratory course examines the anatomy of mammals including humans. This course emphasizes the similarities of the basic mammalian plan. Evolutionary patterns, structure-function relationships and functional differences are considered.

Prerequisite(s): BIOL*1040 or (BIOL*1070, BIOL*1080).

BIOM*3040 Medical Embryology W (3-3) [0.75]
The patterns and principles of fertilization and normal embryonic and fetal development of mammalian organ systems are covered with a focus on the medical implications. The teratology of structural and functional prenatal anomalies in development is also discussed. There is an additional focus on developing scientific writing using evidence-based persuasive arguments and critical analysis of primary research articles.

Prerequisite(s): [BIOL*1040 or (BIOL*1070, BIOL*1090)], (1 of BIOM*3100, BIOM*3200, HK*3940), (1 of BIOM*3010, HK*3401, HK*3501, ZOO*2090).

BIOM*3090 Principles of Pharmacology W (3-0) [0.50]
This course will introduce students to the basic principles of pharmacology. Topics to be covered include pharmacokinetics and drug-receptor interactions as well as the mechanism of action and toxicity of drugs acting on the cardiovascular and central nervous system.

Prerequisite(s): BIOM*2580, (1 of BIOM*3110, BIOM*3200, HK*3940, ZOO*3200).

BIOM*3200 Mammalian Physiology F (6-0) [1.00]
This course focuses on the normal functioning of mammals. The physiology of the nervous, endocrine, reproductive, cardiovascular and digestive systems and homeostasis as reflected in respiratory and renal function is treated in a detailed manner. The integrative nature of various physiological systems is highlighted and cellular and molecular information is incorporated to enhance the understanding of these systems. Aspects of medically significant changes in the mammalian physiological systems are also introduced.

Prerequisite(s): BIOM*2580
Equate(s): BIOM*3110
Restriction(s): BIOM*3100, HK*3940.

BIOM*4030 Endocrine Physiology W (3-0) [0.50]
The course is designed to provide a senior level introduction to the endocrine discipline, focusing largely on mammals, with some examples taken from other vertebrate taxa. The course will give an introduction to the historical developments in the discipline, explore the actions of hormones and other chemical signalling pathways, and examine processes of hormone synthesis and secretion. The focus of the course will be the integrative nature of hormone actions in the regulations of various physiological processes in animal systems, such as metabolic control, growth, and reproduction. The course will also explore aspects of "non-classical" endocrinology, endocrine dysfunctional states and emerging environmental concerns related to endocrine dysfunction.

Prerequisite(s): BIOM*2580, (1 of BIOM*3100, BIOM*3200, HK*3940, ZOO*3200, ZOO*3210).

BIOM*4050 Biomedical Aspects of Aging W (3-0) [0.50]
Aging is accompanied by alterations in the physiological and biochemical functioning of body organ systems. The relationship between aging and the cardiovascular, respiratory, digestive/nutrition and reproductive systems will be discussed as well as homeostatic functions associated with bone metabolism and fluid balance.

Prerequisite(s): 1 of BIOM*3100, BIOM*3200, HK*3940.

BIOM*4070 Biomedical Histology W (3-0) [0.50]
This histology course is designed for students interested in biomedical sciences. Basic tissue types and major organ systems of mammals will be examined using virtual microscopy. Lectures and discussions will focus on the relationship of tissue structure to cell and organ functions and the effects of injury or disease on microscopic structure.

Prerequisite(s): (1 of BIOL*2210, MCB*2210, MCB*2050), (1 of ANSC*3080, BIOM*3110, BIOM*3200, HK*3940).

Restriction(s): BIOM*3030, ZOO*3000. This is a Priority Access Course. Enrolment may be restricted to particular programs or specializations. See department for more information.

BIOM*4090 Pharmacology F (3-0) [0.50]
Topics covered in this course include drugs used in the treatment of inflammatory, allergic, hormonal, infectious, neoplastic and hemorrhagic/thromboembolic disease. The focus will be on drug targets and mechanisms of action that explain therapeutic and toxicological effects.

Prerequisite(s): BIOM*3090.

BIOM*4110 Mammalian Reproductive Biology W (2-2) [0.50]
This multidisciplinary course provides an introduction to various aspects of mammalian reproduction of medical and veterinary significance. The course will cover the normal physiology and gross and micro anatomy of the female and male reproductive systems. Placentaion, pregnancy and post-partum physiology will also be addressed. The impact of the reproductive biology on social and economic issues will be discussed.

Prerequisite(s): (1 of BIOM*3010, HK*3401, HK*3501, ZOO*2090), (1 of BIOM*3110, BIOM*3200, HK*3940, ZOO*3210), (1 of BIOM*3030, BIOM*4070, ZOO*3000) Note: ZOO*3000 can be taken as a co-requisite.

BIOM*4150 Cancer Biology W (5-0) [0.50]
The main objective of this course is to familiarize students with general concepts in cancer biology. Each topic is presented as an overview, emphasizing recent developments in the field. There is additional focus on developing scientific skills, including critical analysis of current literature and the ability to give logical and concise oral presentations.

Prerequisite(s): BIOM*3040, (MBG*2020 or MBG*2040), (MCB*2210 or MCB*2050), (1 of BIOM*3030, BIOM*4070, ZOO*3000).

BIOM*4180 Cardiology W (3-0) [0.50]
This course will explore the concepts and principles of normal heart function, with a focus on the molecular and cellular basis of cardiac physiology. These elements will be further developed by examining changes that occur in a range of cardiovascular diseases and conditions.

Prerequisite(s): (1 of BIOM*3110, BIOM*3200, HK*3940), (1 of BIOM*3010, HK*3401, HK*3501, ZOO*2090).

Restriction(s): Registration in the BSC.BIOM Major.

BIOM*4210 Critical Thinking in Health Sciences Research F (3-0) [0.50]
This course will explore a variety of issues related to the scientific ideals and practical realities of health sciences research. Topics will include critical thinking, critical appraisal of the medical literature, the principles of evidence based medicine, and selected issues related to scientific integrity.

Prerequisite(s): 14.00 credits
Restriction(s): HK*4410. Enrolment restricted to BSC.BIOM majors.

BIOM*4220 Current Health Science Research F (0-6) [0.50]
In this course, students will explore various medical research initiatives by attending seminars, meeting with the investigators, and formulating and answering meaningful scientific questions. Students will be exposed to a variety of research seminar styles, develop scientific communication skills and gain experience in the peer-review process.

Co-requisite(s): BIOM*4210
Restriction(s): Enrolment restricted to BSC.BIOM majors. Instructor consent required.
The primary purpose of this course is to develop students' ability to communicate scientific information logically and concisely, in written and oral formats. Students will be taught the basic principles underlying logical development of scientific arguments and hypotheses. Using practical examples drawn from current scientific literature, students will be exposed to the methods currently used by scientists in researching their subjects and writing about them in an effective fashion. Through written and oral presentation assignments, students will develop the skills necessary to confidently develop scientific presentations and communicate their knowledge and ideas to others.

**Prerequisite(s):** 14.00 credits including BIOL*1080, STAT*2040

**Restriction(s):** Restricted to students in BSCH:BIOM.

**BIOM*4420 Research Modules W (0-6) [0.50]**

This course is taught as a series of hands-on modules on various research topics, techniques and approaches that are current in health science laboratories. This course is primarily aimed at students in the Neurosciences, Biomedical Sciences, Human Kinetics and Nutritional and Nutraceutical Sciences programs, who prefer a more structured approach to their research experience.

**Prerequisite(s):** 14.00 credits (1 of: BIOM*3110, BIOM*3200, HK*3940)  
Recommended: BIOM*4210 or HK*4410

**Equate(s):** HK*4420

**Restriction(s):** BIOM*4510, BIOM*4521/2, HK*4360, HK*4371/2, Instructor consent required.

**BIOM*4500 Literature-based Research in Biomedical Sciences S,F,W (0-6) [0.50]**

This course involves independent literature research of a current topic in any of the biomedical sciences (such as anatomy, physiology, pharmacology, toxicology, genetics, biochemistry). Students will present critical appraisals of primary research literature and are required to submit an annotated bibliography and research proposal in addition to their publication-quality literature review paper. Students work under the supervision of individual faculty. Faculty consent must be obtained prior to being admitted into the course by the course coordinator.

**Prerequisite(s):** 12.00 credits

**Restriction(s):** HK*4230 Instructor consent required. Enrolment restricted to BSC.BIOM majors or BSC.NEUR minors.

**BIOM*4510 Research in Biomedical Sciences S,F,W (0-12) [1.00]**

In this course students will conduct and individual research project on a current topic in any of the biomedical sciences (such as anatomy, physiology, pharmacology, toxicology, genetics, biochemistry). Students work under the supervision of individual faculty. Faculty consent must be obtained prior to being admitted into the course by the course coordinator.

**Prerequisite(s):** 14.00 credits

**Restriction(s):** BIOM*4510/2. Instructor consent required. Enrolment restricted to BSC.BIOM majors.

**BIOM*4521 Research in Biomedical Sciences F (0-12) [1.00]**

This is the first part of the two-semester course BIOM*4521/2. Refer to BIOM*4521/2 for the complete course description.

**Prerequisite(s):** 14.00 credits

**Restriction(s):** BIOM*4510. Instructor consent required. (This is a priority access course. Enrolment may be restricted to particular programs. See department for more information.)

**BIOM*4521/2 Research in Biomedical Sciences F-W [2.00]**

In this course, students will conduct an extensive individual research project on a current topic in any of the biomedical sciences (such as anatomy, physiology, pharmacology, toxicology, genetics, biochemistry). Students work under the supervision of individual faculty. Students should make arrangements to find their own faculty advisor well in advance of course selection. A departmental registration form must be obtained from the course coordinator and signed by the faculty advisor before students can be admitted into the course. This is a two-semester course offered over consecutive semesters. When you select it you must select BIOM*4521 in the first semester and BIOM*4522 in the second semester. A grade will not be assigned in BIOM*4521 until BIOM*4522 has been completed.

**Prerequisite(s):** 14.00 credits

**Restriction(s):** BIOM*4521. Instructor consent required. (This is a priority access course. Enrolment may be restricted to particular programs. See department for more information.)

**BIOM*4522 Research in Biomedical Sciences W (0-12) [1.00]**

This is the second part of the two-semester course BIOM*4521/2. Refer to BIOM*4521/2 for the complete course description.

**Prerequisite(s):** BIOM*4521.
### Botany

**Department of Integrative Biology**

**Department of Molecular and Cellular Biology**

**Department of Plant Agriculture**

Additional course listings may be found in the course descriptions for Biology and Plant Biology.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
<th>Prerequisite(s)/Restriction(s)</th>
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<tbody>
<tr>
<td>BOT*1200</td>
<td>Plants and Human Use W (3-0) [0.50]</td>
<td>This course will examine past and present interactions between humans and plants with emphasis on major changes in civilization and cultures as a result of these interactions. The approach will be to consider several case studies of how unique structural and chemical properties of various plant organs have played a role in their use by humans. Not an acceptable course for students in B.SC. Biological Sciences Programs. Department of Plant Agriculture. (Also offered through Distance Education format.)</td>
<td>BIOL<em>1030, BIOL</em>1040</td>
</tr>
<tr>
<td>BOT*2000</td>
<td>Plants, Biology and People W (3-0) [0.50]</td>
<td>The course deals with the biology of plant species of historical and cultural importance. It will focus on plants used as a source of drugs, herbal medicines, industrial raw materials, food products, perfumes and dyes. Examples of plant products that will be looked at include cocaine, chocolate, tea, opium, hemp and ginseng. The relevant morphology, physiology, distribution and ethnobotany of these plant species will be discussed. (Offered through Distance Education format only.) Department of Plant Agriculture.</td>
<td>BIOL*1040</td>
</tr>
<tr>
<td>BOT*2100</td>
<td>Life Strategies of Plants F,W (3-3) [0.50]</td>
<td>This course introduces the structures and processes used by plants in the greening of our planet, and how and why plants are basic to the functioning of the biosphere. This course includes hands-on experience in examining the cells, tissues and architectures of plants as well as selected processes of plant function. Department of Molecular and Cellular Biology.</td>
<td>BIOL<em>1040 or (2 of BIOL</em>1070, BIOL<em>1080, BIOL</em>1090)</td>
</tr>
<tr>
<td>BOT*3050</td>
<td>Plant Functional Ecology F (3-3) [0.50]</td>
<td>This course integrates fundamental and applied aspects of plant ecology, focusing on the roles of functional traits, physiological mechanisms, life history strategies, abiotic constraints, and biotic interactions in influencing plant distribution and abundance. Specific topics include physiological ecology, growth and allocation patterns, influence of biotic and trophic interactions [pollinators, pathogens, herbivores, competitors, mutualists, decomposers] on the structure and function of plant communities, and effects of global environmental change. Labs will include a field component that explores variation in functional aspects of plants. This course is especially valuable for students interested in plant or wildlife biology and environmental management. Department of Integrative Biology.</td>
<td>BIOL<em>1040 or BIOL</em>1070</td>
</tr>
<tr>
<td>BOT*3310</td>
<td>Plant Growth and Development W (3-3) [0.50]</td>
<td>In this course the unique function and structure of plants is explored in relation to their growth, survival and adaptation to the environment. The control of growth and development by environmental and hormonal signals is explained through lectures and &quot;hands-on&quot; laboratories. Department of Molecular and Cellular Biology.</td>
<td>BIOL<em>1040 or (BIOL</em>1090, BIOL<em>1070 or BIOL</em>1080)</td>
</tr>
<tr>
<td>BOT*3410</td>
<td>Plant Anatomy F (3-3) [0.50]</td>
<td>The intricate internal structure of plants is explored in this course. The development, pattern and significance of cells, tissues and organs will be emphasized as well as the histological and microscopical methods used to study them. The lab emphasizes interpretation of plant structure as it relates to function. Department of Molecular and Cellular Biology.</td>
<td>BIOL<em>1040 or (2 of BIOL</em>1070, BIOL<em>1080, BIOL</em>1090)</td>
</tr>
<tr>
<td>BOT*3710</td>
<td>Plant Diversity and Evolution W (3-3) [0.50]</td>
<td>This course integrates mostly fundamental and applied aspects of plant evolution, focusing on the evolutionary history of plants, classification and identification, and hypotheses related to the evolution of plant form and life history. Specific topics include evolutionary process in plants and evolution of physiological, reproductive, behavioural, and morphological traits. Labs will focus on methods and contemporary tools for phylogenetic reconstruction, comparative analyses, identification, and basic morphology/anatomy. This course is especially valuable for students interested in plant or wildlife biology and environmental management. Department of Integrative Biology.</td>
<td>7.50 credits including (BIOL<em>1040 or BIOL</em>1070)</td>
</tr>
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**BOT*4380 Metabolism in the Whole Life of Plants W (3-0) [0.50]**

This course follows the developmental changes that take place in plants, and explores the molecular, biochemical and physiological mechanisms that are responsible for development. Emphasis will be placed on the importance of modern experimental methods and critical evaluation of data. Department of Molecular and Cellular Biology.

Prerequisite(s): (BIOL*1040 or BIOL*1090), BIOC*2580
Business

Department of Business - College of Management and Economics

BUS*2090 Individuals and Groups in Organizations F,W (3-0) [0.50]

The course serves as an overview to organizational behavior. It examines the individual, the group, the organization and how the three interrelate in order to enhance performance and productivity. (Also offered through Distance Education format.) (Last offering - Winter 2014)

Restriction(s): BUS*2000, BUS*4000, HROB*2100, HROB*4000, HTM*2200, HTM*4100, HTM*4390, ISS*2500

BUS*3000 Human Resources Management F,W (3-0) [0.50]

This course examines the essential human resource function of planning, staffing, employee training and development, employee assistance programs, the legal environment and employee maintenance in a variety of organizational settings. (Also offered through Distance Education format.) (Last offering - Winter 2015)

Prerequisite(s): 1 of ACCT*2220, AGEC*2220, BUS*2000, BUS*2090, BUS*2220, HTM*2030, HTM*2200

Restriction(s): PSYC*3070 This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

Restriction(s): HTM*3000

BUS*4250 Business Policy F,W (3-0) [0.50]

Business policy is a synthesis of the principles of business management with emphasis upon the formation of business decisions and policies. The purpose of this course is to enable the student to draw on analytic tools and factual knowledge from all other courses in analyzing comprehensive business problems. (Last offering - Winter 2014)

Prerequisite(s): 14.00 credits including (AGEC*3310 or FARE*3310), (1 of AGEC*3320, AGEC*3400, BUS*3320, FARE*3400, MGMT*3320), (ECON*2560, ECON*3560)

Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

Equate(s): AGEC*4250

Restriction(s): HTM*4390

BUS*4550 Applied Business Project I S,F,W (3-0) [0.50]

This is a project-based independent study course on a business issue for third or fourth year students in an agreed program of study with the instructor.

Prerequisite(s): 10.00 credits

Restriction(s): (AGEC*4550 or FARE*4550). Instructor consent required.

BUS*4560 Applied Business Project II S,F,W (3-0) [0.50]

This course provides an opportunity to conduct a second independent study on a business issue for third or fourth year students in an agreed program of study with the instructor.

Prerequisite(s): BUS*4550

Restriction(s): (AGEC*4560 or FARE*4560). Instructor consent required.
Chemistry

Department of Chemistry

CHEM*1040 General Chemistry I F,W (3-3) [0.50]
This course introduces concepts of chemistry, the central link between the physical and biological sciences. Principles discussed include chemical bonding, simple reactions and stoichiometry, chemical equilibria and solution equilibria (acids, bases, and buffers), and introductory organic chemistry.
Prerequisite(s): 4U Chemistry, (or equivalent) or CHEM*1060

CHEM*1050 General Chemistry II F,W (3-3) [0.50]
This course provides an introductory study of the fundamental principles governing chemical transformations: thermodynamics (energy, enthalpy, and entropy); kinetics (the study of rates of reactions); and redox/electrochemistry.
Prerequisite(s): CHEM*1040

CHEM*1060 Introductory Chemistry F (3-0) [0.50]
This course stresses fundamental principles of chemistry and is designed for students without Grade 12 or 4U Chemistry or equivalent. Topics include: atomic theory, the periodic table, stoichiometry, properties of gases and liquids, acid-base concepts and chemical equilibria. This course is intended only for students who require the equivalent of Grade 12 or 4U Chemistry in order to proceed to CHEM*1040. (Offered through Distance Education only.)

CHEM*1100 Chemistry Today W (3-0) [0.50]
This chemistry course for non-scientists will outline the involvement of chemistry in our daily lives and will provide an appreciation of chemistry from atoms to important complex molecules. Topics will include energy sources, air and water pollution, natural and synthetic polymers, household chemicals, foods, drugs and biochemicals. (Offered through Distance Education only.)
Restriction(s): CHEM*1040

CHEM*2060 Structure and Bonding F (3-1.5) [0.50]
This course covers the applications of symmetry, simple crystal structures and principles of bonding. Molecular orbital theory is used to explain the fundamental relationship between electronic and molecular structure. This course provides the elementary quantum background for an understanding of the electronic structures of atoms and molecules.
Prerequisite(s): CHEM*1050, [IPS*1510, MATH*1210, PHYS*1010]]

CHEM*2070 Structure and Spectroscopy S,W (3-1.5) [0.50]
This course provides an introduction to spectroscopy and its relationship to molecular structure and dynamics. Rotational, vibrational, electronic and magnetic resonance spectroscopies will be studied. Concepts introduced in CHEM*2060 will be applied to chemical and biochemical problems through spectroscopic techniques. Central to this course is the use of spectroscopy for the determination of molecular structures and the investigation of molecular motions.
Prerequisite(s): CHEM*2060

CHEM*2400 Analytical Chemistry I S,F,W (3-6) [0.75]
This course provides instruction in quantitative analysis of important inorganic species in solution by volumetric, gravimetric and spectrophotometric techniques. The students will utilize spreadsheet applications to study solution equilibria and data analysis. This course is intended to build the foundations of good analytical laboratory practice.
Prerequisite(s): CHEM*1050
Restriction(s): CHEM*2480

CHEM*2480 Analytical Chemistry I S,F,W (3-3) [0.50]
This course consists of a lecture portion that is the same as CHEM*2400 and a 3 hour laboratory component.
Prerequisite(s): CHEM*1050
Restriction(s): CHEM*2400

CHEM*2700 Organic Chemistry I S,W (3-3) [0.50]
This course provides an introduction to organic chemistry through the discussion of stereochemistry and major reaction mechanisms such as nucleophilic substitution and elimination, electrophilic addition, free radical reactions, electrophilic aromatic substitution, nucleophilic addition and nucleophilic acyl substitution.
Prerequisite(s): CHEM*1050
Restriction(s): CHEM*2300. This is a Priority Access course. Enrolment may be restricted to particular programs, specializations or semester levels during certain periods. Please see the departmental website for more information.

CHEM*2820 Thermodynamics and Kinetics F (3-3) [0.50]
This course examines the laws and applications of chemical thermodynamics and chemical kinetics.
Prerequisite(s): CHEM*1050, (1 of IPS*1510, MATH*1210, MATH*2080)
Restriction(s): CHEM*2880

CHEM*2880 Physical Chemistry F (3-1.5) [0.50]
This course is intended for students who are not specializing in chemistry or chemical physics. Topics include basic thermodynamics, chemical equilibrium, macromolecular binding, chemical kinetics, enzyme kinetics, transport processes, colligative properties and spectroscopy. This course describes macroscopic observable properties of matter in terms of molecular concepts.
Prerequisite(s): CHEM*1050, (1 of IPS*1500, MATH*1000, MATH*1080, MATH*1200)
Restriction(s): CHEM*2820

CHEM*3360 Environmental Chemistry and Toxicology S,W (3-0) [0.50]
This course examines the chemistry of the natural environment and the influence of pollutants upon the environment. Topics will include methods of introduction of pollutants to, and removal of pollutants from, the environment. (Also listed as TOX*3360.) (Also offered in Distance Education format)
Prerequisite(s): CHEM*1050
Equates(s): TOX*3360

CHEM*3430 Analytical Chemistry II: Instrumental Analysis S,W (3-3) [0.50]
This course examines methods for the separation, identification and quantification of substances in the solid, liquid and vapour states. Emphasis will be placed on modern instrumental methods and trace analysis.
Prerequisite(s): (CHEM*2400 or CHEM*2480)
Restriction(s): TOX*3300

CHEM*3440 Analytical Chemistry III: Analytical Instrumentation F (3-3) [0.50]
Analytical Instrumentation, data acquisition, processing and applications in Chemistry and Biological Chemistry.
Prerequisite(s): CHEM*3430

CHEM*3640 Chemistry of the Elements I F (3-3) [0.50]
A comprehensive introduction to concepts used by inorganic chemists to describe the structure, properties, and reactivity of compounds of the main group elements. The most important concepts covered are: Electronic Structure of Atoms, Symmetry, MO theory, Acids and Basis, Structure of Solids, Trends in the Periodic System.
Prerequisite(s): CHEM*2070

CHEM*3650 Chemistry of the Elements II W (3-3) [0.50]
The chemistry and structure of transition metal compounds; electronic spectral and structural properties of transition metal complexes; mechanisms of their substitution and redox reactions. Introduction to organometallic chemistry.
Prerequisite(s): CHEM*3640

CHEM*3750 Organic Chemistry II S,F (3-3) [0.50]
This course provides continued coverage of fundamental aspects of organic chemistry using an assimilation of carbylony chemistry, unsaturated systems and carbon-carbon bond forming processes to acquaint students with methods of organic synthesis. Topics also include an introduction to spectroscopic methods for the identification of organic compounds.
Prerequisite(s): CHEM*2700
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs, specializations or semester levels during certain periods. Please see the departmental website for more information.

CHEM*3760 Organic Chemistry III W (3-3) [0.50]
This course provides an in-depth treatment of various aspects of organic chemistry. This will include such topics as the chemistry of heterocycles, polar rearrangements, organic photochemistry, synthetic planning and a detailed discussion of organic spectroscopy.
Prerequisite(s): CHEM*3750

CHEM*3860 Quantum Chemistry F (3-1) [0.50]
Elementary quantum mechanics for the understanding of the electronic structure of atoms and molecules.
Prerequisite(s): CHEM*2070, MATH*2170

Restriction(s): restricted to particular programs, specializations or semester levels during certain periods. Please see the departmental website for more information.

Last Revision: Oct. 19, 2012
CHEM*3870 Molecular Spectroscopy W (3-3) [0.50]
This course covers elementary group theory with applications to molecular spectroscopy and provides a continuation of the topics of rotational, vibrational and electronic spectroscopy and their applications in chemistry from CHEM*2070. (Offered in odd-numbered years.)
Prerequisite(s): CHEM*2070, (MATH*2150 or MATH*2160)

CHEM*4010 Chemistry and Industry W (3-0) [0.50]
This course examines industrial processes for the production of organic and inorganic chemicals. The environmental impact and the challenges of a large-scale operation will be considered alongside the actual chemical processes involved.
Prerequisite(s): CHEM*2700, (CHEM*3430 or TOX*3300), (1 of IPS*1510, MATH*1210, MATH*2080)

CHEM*4400 Advanced Topics in Analytical Chemistry W (3-0) [0.50]
Recent developments in instrumental methods of chemical analysis. A typical selection will include topics from the areas of surface analysis and the applications of lasers in chemical analysis.
Prerequisite(s): CHEM*3430 or CHEM*3450

CHEM*4620 Advanced Topics in Inorganic Chemistry F (3-0) [0.50]
This course provides a contemporary treatment of subjects of current interest in modern inorganic chemistry. Possible topics include solid state chemistry, main group chemistry and organometallic chemistry.
Prerequisite(s): CHEM*3650

CHEM*4630 Bioinorganic Chemistry W (3-0) [0.50]
This course covers the role and importance of transition metal systems in biological processes. (Offered in odd numbered years.)
Prerequisite(s): BIOC*2580, CHEM*3650
Co-requisite(s): CHEM*3650

CHEM*4720 Organic Reactivity W (3-0) [0.50]
This course is an introduction to physical organic chemistry, including discussion of reactive intermediates, substituent effects, medium effects, the mechanisms of organic reactions and the theoretical description of the bonding in organic molecules. (Offered in even-numbered years.)
Prerequisite(s): CHEM*3760
Co-requisite(s): CHEM*3760

CHEM*4730 Synthetic Organic Chemistry F (3-0) [0.50]
This course provides an introduction to synthetic organic chemistry, including discussion of retrosynthetic analysis, modern synthetic methods, organic reaction, and syntheses of natural products. The integration of these topics for the rational design of synthetic schemes will also be discussed.
Prerequisite(s): CHEM*3750

CHEM*4740 Topics in Bio-Organic Chemistry F (3-0) [0.50]
This course covers the principles, methods and techniques of current bio-organic chemistry with emphasis on modern synthetic and analysis methods applied to biological molecules, a molecular based approach to structure recognition, and an introduction to molecular modeling and drug design.
Prerequisite(s): BIOC*2580, CHEM*3750

CHEM*4880 Topics in Advanced Physical Chemistry W (3-0) [0.50]
This course will cover selected topics in advanced physical chemistry. Possible topics include statistical thermodynamics, advanced quantum chemistry, spectroscopy, and magnetic resonance. (Offered in even-numbered years.)
Prerequisite(s): (CHEM*2820 or PHYS*3240), CHEM*3860

CHEM*4910 Chemistry Research Project II S,F,W (0-12) [1.00]
This research project and seminar in chemistry is designed to provide senior undergraduates with an opportunity to conduct research in an area of chemistry. Students must make arrangements with both a faculty supervisor and the course coordinator prior to registration. Students cannot choose a supervisor with whom they already have research experience in another capacity (e.g. a summer research position). The project supervisor must be a faculty member of the Chemistry Department. Students should note that most projects are of two semesters' duration, and should plan their studies on the expectation that they will also register in CHEM*4910 in a subsequent semester.
Prerequisite(s): 5.00 credits in chemistry including (1.50 credits from CHEM*3430, CHEM*3640, CHEM*3650, CHEM*3750, CHEM*3760, CHEM*3870)
Restriction(s): Instructor consent required.
# Chinese

**School of Languages and Literatures**

**CHIN*1200 Introductory Chinese I F (3-0) [0.50]**

This introductory course in Mandarin Chinese provides the fundamentals of grammar, structure, and idiom, and due importance to the spoken language. This course is for students with no previous knowledge of the language.  

**Restriction(s):** Students with native or near-native ability in Chinese will not be admitted to this course. Instructor consent required to verify student’s level.

**CHIN*1210 Introductory Chinese II W (3-0) [0.50]**

This course, a continuation of CHIN*1200, emphasizes the application of basic grammatical structure in oral work and the comprehension of elementary reading texts. This course is intended for students who have only a basic knowledge of Mandarin Chinese.

**Prerequisite(s):** CHIN*1200

**CHIN*1280 Conversational Chinese I F (3-0) [0.50]**

The emphasis of this course is intensive practice of conversation and vocabulary acquisition in Mandarin Chinese.

**Restriction(s):** This course is restricted to students who are not fluent in Mandarin Chinese.

**CHIN*1290 Conversational Chinese II W (3-0) [0.50]**

This is a continuation of CHIN*1280. Additional emphasis will be given to the study of grammatical points in order to enhance listening and speaking skills.

**Prerequisite(s):** CHIN*1280

**Restriction(s):** This course is restricted to students who are not fluent in Mandarin Chinese.

**CHIN*2010 Chinese Language and Culture F (3-5) [1.00]**

This language course provides the application of basic grammatical structures in relation to conversational Mandarin (Chinese). The course may include the comprehension of elementary reading texts. The course focuses on Chinese, as a language, and its relation to understanding the culture of China. This course is offered as part of the Shanghai Semester.

**Prerequisite(s):** CHIN*1200 or equivalent

**Restriction(s):** Admission to the Shanghai semester. Instructor consent required.

**CHIN*2200 Intermediate Chinese I F (3-0) [0.50]**

This course supports the further development of the four basic language skills (speaking, writing, reading, and listening) acquired in previous Chinese Language courses and includes a survey of grammar, complex sentences and logical stress.

**Prerequisite(s):** CHIN*1210

**Restriction(s):** Instructor consent required.

**CHIN*2210 Intermediate Chinese II W (3-0) [0.50]**

This is a continuation of Intermediate Chinese I. Additional emphasis will be given to the study of Chinese characters and grammar.

**Prerequisite(s):** CHIN*2200

**Restriction(s):** Instructor consent required.
XII. Course Descriptions, Classical Studies

School of Languages and Literatures

Unless otherwise noted, these courses do not require a knowledge of the Greek or Latin languages.

**CLAS*1000 Introduction to Classical Culture FW (3-0) [0.50]**

This course provides a wide-ranging look at essential features of Greek and of Roman culture and society. Considerable emphasis will be given to the classical views of the human condition. (Winter semester offering in odd-numbered years.)

**CLAS*2000 Classical Mythology W (3-0) [0.50]**

An examination of the nature and function of myth in Classical Antiquity. The course shows how the narrative and symbolic structure of myths orders individual and communal experience. The myths that have influenced Western civilization receive special emphasis.

**CLAS*2150 Western Art: Greece F (3-0) [0.50]**

A survey of Ancient Greek Art and Archaeology, with stress on form and function plus stylistic trends and aesthetic values. The course will illuminate the cultural, social, and political life in Ancient Greece. (Also listed as ARTH*2150).

**Equate(s):** ARTH*2150

**CLAS*2350 The Classical Tradition W (3-0) [0.50]**

This course examines the transmission of Graeco-Roman culture in circumstances radically different from those in which it originated. It highlights the aspects of classical culture most influential in forming the Western tradition. (Offered in odd-numbered years.)

**Prerequisite(s):** CLAS*1000 or CLAS*2000

**CLAS*2360 The Classical Tradition (in Latin) W (6-0) [1.00]**

This course augments CLAS*2350 for Classical Languages students through the reading and study in Latin of certain primary sources, in particular Cicero, Quintilian, Augustine. (Offered in even-numbered years.)

**Prerequisite(s):** LAT*2000

**Restriction(s):** Registration in Classical Languages.

**CLAS*3000 The Rise and Fall of Athens F (3-0) [0.50]**

Greek history in the 5th century; the development of Athenian democracy; the Peloponnesian War and the decline of Athenian dominance. Special attention is paid to the literature and thought of the period. (Offered in even-numbered years.)

**Prerequisite(s):** 1 of CLAS*1000, CLAS*2000, HIST*2850

**CLAS*3010 The Roman Revolution W (3-0) [0.50]**

An examination of the collapse of the Roman Republic and the development of the Imperial government under Augustus. The paradox of the external power and inner instability of Rome. (Offered in even-numbered years.)

**Prerequisite(s):** 1 of CLAS*1000, CLAS*2000, HIST*2850

**CLAS*3020 History of the Hellenistic World F (3-0) [0.50]**

The rise and fall of the Hellenistic states from the death of Alexander the Great until the Roman conquest, with political emphasis on the development of the monarchy and cultural emphasis on the Hellenization of the East. (Offered in odd-numbered years.)

**Prerequisite(s):** 1 of CLAS*1000, CLAS*2000, HIST*2850

**CLAS*3030 Epic Heroes and Poems W (3-0) [0.50]**

The nature and significance of the epic hero. Epic as code and as critique of tradition. Oral poetry, and critical problems raised by it. The central texts are The Iliad, The Odyssey, and Virgil's Aeneid; other poems are also studied. (Offered in odd-numbered years.)

**Prerequisite(s):** CLAS*1000 or CLAS*2000

**CLAS*3040 Greek Tragedy and Comedy W (3-0) [0.50]**

The nature of tragedy, and the existential and moral questions raised by the plays of Aischylus, Sophokles, and Euripides. Comedies, fantasy, and society in Aristophanes. (Offered in even-numbered years.)

**Prerequisite(s):** CLAS*1000 or CLAS*2000

**CLAS*3050 The Rise and Fall of Athens (in Greek) F (6-0) [1.00]**

This course augments CLAS*3000 for Classical Languages students through the reading and study in Greek of selected primary sources, such as Herodotus, Thucydides, and Plutarch. (Offered in even-numbered years.)

**Prerequisite(s):** GREK*2020

**Restriction(s):** Registration in Classical Languages.

**CLAS*3060 The Roman Revolution (in Latin) W (6-0) [1.00]**

This course augments CLAS*3010 for Classical Languages students through the reading and study in Latin of selected primary sources, notably Sallust, Cicero, Caesar, and Suetonius. (Offered in even-numbered years.)

**Prerequisite(s):** LAT*2000

**Restriction(s):** Registration in Classical Languages.

**CLAS*3070 History of the Hellenistic World (in Greek) F (6-0) [1.00]**

This course augments CLAS*3020 for Classical Languages students through the reading and study in Greek of selected Greek sources pertaining to the history of the Hellenistic World, primarily Polybius and Plutarch. (Offered in odd-numbered years.)

**Prerequisite(s):** GREK*2020

**Restriction(s):** Registration in Classical Languages.

**CLAS*3080 Epic Heroes and Poems (in Greek) W (6-0) [1.00]**

This course augments CLAS*3040 for Classical Languages students through the reading and study in Greek of an extant play. Offered in even-numbered years.)

**Prerequisite(s):** GREK*2020

**Restriction(s):** Registration in Classical Languages.

**CLAS*3090 Greek Tragedy and Comedy (in Greek) W (6-0) [1.00]**

This course augments CLAS*3040 for Classical Languages students through the reading and study in Greek of selected books from the Iliad and/or Odyssey. The course will include close study of the epic dialect and features of its formulaic language. (Offered in odd-numbered years.)

**Prerequisite(s):** GREK*2020

**Restriction(s):** Registration in Classical Languages.

**CLAS*3100 Religion in Greece and Rome F (3-0) [0.50]**

An examination of the varieties of religious experience and of religious activity in Greece and Rome, before the establishment of Christianity. Particular attention is paid both to the relations of religion to state and to the relations of the individual to gods. (Offered in even-numbered years.)

**Prerequisite(s):** CLAS*1000 or CLAS*2000

**CLAS*3120 Religion in Greece and Rome (in Latin) F (6-0) [1.00]**

This course augments CLAS*3100 for Classical Languages students through the reading and study of Latin primary sources. (Offered in even-numbered years.)

**Prerequisite(s):** LAT*2000

**Restriction(s):** Registration in Classical Languages.

**CLAS*3130 Space: Roman Art and Urbanism W (3-0) [0.50]**

Introduction to Roman art and urbanism from the Early Republic to the end of the imperial period. The course will survey the developments of Roman art with an emphasis on architecture, sculpture and painting. It will illuminate the development of the urban space in the context of cultural, social and political life. (Also listed as ARTH*3150). (Offered in even-numbered years.)

**Equate(s):** ARTH*3150

**CLAS*3300 Directed Reading in Classical Languages U (3-0) [0.50]**

This course is designed for students of Classical Languages who are seeking an enriched learning opportunity, through directed reading and/or research in the original language (Greek or Latin). Consult the Classical Languages faculty advisor for information about this opportunity.

**Prerequisite(s):** LAT*2000, (1 of CLAS*2350, CLAS*3010, CLAS*3100, CLAS*4000), or (GREK*2020, (1 of CLAS*3000, CLAS*3020, CLAS*3030, CLAS*3040))

**Restriction(s):** Registration in Classical Languages; instructor consent required.

**CLAS*4000 Novel and Romance in Antiquity F (3-0) [0.50]**

The historical and formal roots of fiction in the classical prose romances. Special attention is paid to the influence of myth, religion, historiography and ethical biography. Among texts studied are Daphnis and Chloe, Satyricon, and Aithiopika. (Offered in odd-numbered years.)

**Prerequisite(s):** CLAS*3000 or CLAS*3040

**CLAS*4010 Novel and Romance in Antiquity (in Latin) F (6-0) [1.00]**

This course augments CLAS*4000 for Classical Languages students through the reading and study in Latin of an extant novel. (Offered in odd-numbered years.)

**Prerequisite(s):** LAT*2000

**Restriction(s):** Registration in Classical Languages.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS*4150</td>
<td>Research Paper in Classics F,W (3-0) [0.50]</td>
<td></td>
<td>This course is intended to complement courses in specified studies in classics. It engages the student in research and in critical writing, and permits the examination, in depth, of a topic of importance to the discipline and of interest to the student.</td>
<td>1.50 credits in Classical Studies courses at the 3000 level</td>
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<tr>
<td>CLAS*4400</td>
<td>Seminar in Classics W (3-0) [0.50]</td>
<td></td>
<td>A seminar course complementing courses of specific study in classics. It seeks to define the nature of the discipline, its values and its procedures. Attention will be paid to recent methodological and ideological trends in the discipline.</td>
<td>1.50 credits in Classical Studies at the 3000 level</td>
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</table>
### Computing and Information Science

#### Department of Computing and Information Science

Note: Credit may be obtained for 1 of CIS*1000 or CIS*1200. Students who major or minor in Computing and Information Science may not receive credit for the following courses unless taken to satisfy the requirements of another program: MATH*1050.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1200</td>
<td>Not available to students registered in B.A.Sc. Program</td>
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<tr>
<td>CIS*1250</td>
<td>Software Design I F (3-2)</td>
<td>0.50</td>
<td>This course provides an introduction to computer hardware and software, data organization, problem-solving and programming. The course includes exposure to application packages for personal and business use. Not recommended for students with previous computer science background. Cannot be taken for credit by students taking a major or minor in Computing and Information Science. (Also offered in Distance Education format.)</td>
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<tr>
<td>Restriction(s):</td>
<td>CIS*1200, Not available to students registered in B.A.Sc. Program</td>
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<tr>
<td>(Applied Human Nutrition major)</td>
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<tr>
<td>CIS*1300</td>
<td>Introduction to Computer Applications S,F,W (3-2)</td>
<td>0.50</td>
<td>This course provides a survey of computer systems and software, including an introduction to computer programming, data organization and the social impact of computing. The course contains an emphasis on application packages for personal and business use. Not recommended for students with previous computer science background. Cannot be taken for credit by students taking a major or minor in Computing and Information Science. (Also offered in Distance Education format.)</td>
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<tr>
<td>Restriction(s):</td>
<td>CIS*1200, Not available to students registered in B.A.Sc. Program</td>
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<tr>
<td>CIS*1400</td>
<td>Discrete Structures in Computing I W (3-2)</td>
<td>0.50</td>
<td>This course introduces a general overview of discrete structures and problem solving as it is practiced in different disciplines. The course will include an examination of the qualities of software as the end product of the design process. It will include a study of the pervasiveness of software, and the platform specific considerations. The course has an applied focus and will involve software design and development experiences in teams, a literacy component, and the use of software development tools.</td>
</tr>
<tr>
<td>Restriction(s):</td>
<td>Restricted to students in BCOMP-CS and BCOMP-CS:C with 2.50 or fewer credits and to students in BCOMP-SENG and BCOMP-SENG:C</td>
<td></td>
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<tr>
<td>CIS*1500</td>
<td>Introduction to Programming F,W (3-2)</td>
<td>0.50</td>
<td>Introductory problem-solving, programming and data organization techniques required for applications using a general purpose programming language. Topics include control structures, data representation and manipulation, program logic, development and testing. For students who require a good understanding of programming or are planning on taking additional specialist Computing and Information Science courses. This is the entry point to all CIS programs. (Also offered in Distance Education format.)</td>
</tr>
<tr>
<td>Restriction(s):</td>
<td>CIS*1650</td>
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<tr>
<td>CIS*1910</td>
<td>Discrete Structures in Computing I W (3-2)</td>
<td>0.50</td>
<td>An introduction to discrete structures and formal methodologies used in computer science, including Boolean, prepositional and predicate logic, finite set theory, functions, relations, and proof techniques.</td>
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<tr>
<td>Restriction(s):</td>
<td>CIS*1900</td>
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<tr>
<td>CIS*2030</td>
<td>Structure and Application of Microcomputers F (3-3)</td>
<td>0.50</td>
<td>This course examines the components of a computer system, including memories, CPU, buses, and input/output subsystems and interface hardware. Programming of these systems is studied, including instruction sets, addressing modes, assembly/machine language programming, development of algorithms for data acquisition, display, and process control.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>(CIS<em>1900 or CIS</em>1910), (CIS<em>2500 or CIS</em>2650)</td>
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<tr>
<td>CIS*2050</td>
<td>Computers and Society S (3-0)</td>
<td>0.50</td>
<td>Students in this course will investigate and study the social impacts of computing technology. The course will provide a brief introduction to ethics and the history of computing and the Internet. Additional content will focus on areas in which computers and information technology are having an impact on individuals and society including privacy, safety, freedom of speech, intellectual property, work, distribution of wealth, and the environment. This course is intended for students in any discipline. (Offered through Distance Education format only.)</td>
</tr>
<tr>
<td>Restriction(s):</td>
<td>CIS*3000. This course may not be taken for credit by students in the Software Engineering Major.</td>
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<tr>
<td>CIS*2170</td>
<td>User Interface Design W (3-2)</td>
<td>0.75</td>
<td>This course is a practical introduction to the area of user interface construction. Topics include user interface components and their application, best practices for user interface design, approaches to prototyping, and techniques for assessing interface suitability.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>CIS<em>1200 or CIS</em>1500</td>
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<tr>
<td>CIS*2200</td>
<td>Software Design II W (3-2)</td>
<td>0.50</td>
<td>This course focuses on the process of software design. Best practices for code development and review will be the examined. The software development process and tools to support this will be studied along with methods for project management. The course has an applied focus and will involve software design and development experiences in teams, a literacy component, and the use of software development tools.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>CIS<em>1250, CIS</em>1500</td>
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<tr>
<td>CIS*2300</td>
<td>Object Oriented Programming F (3-2)</td>
<td>0.50</td>
<td>This course introduces the Object Oriented (OO) approach to programming and algorithm design. Topics will include the creation and use of objects from class libraries, user defined objects, inheritance, modularity, generic code, components, collections and containers, and an introduction to OO design methodologies.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>CIS*2500</td>
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<tr>
<td>CIS*2460</td>
<td>Modelling of Computer Systems F (3-2)</td>
<td>0.50</td>
<td>This course examines discrete simulation based on event queues and random number generation. Methods for generating input data, measuring and evaluating results using standard statistical tests are studied. Topics covered will include model calibration and validation, and algebraic, probabilistic and simple queuing models of software and hardware operations.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>CIS*2500</td>
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<tr>
<td>CIS*2500</td>
<td>Intermediate Programming W (3-2)</td>
<td>0.50</td>
<td>How to interpret a program specification and implement it as reliable code. Experience with pointers, complex data types, and important algorithms. Intermediate tools and techniques in problem-solving, programming and program testing.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>CIS*1500</td>
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<tr>
<td>CIS*2510</td>
<td>Data Structures F (3-2)</td>
<td>0.50</td>
<td>Basic data structures are studied including: stacks, queues, lists, trees, hashing, searching, and graphs. Topics include their representation, uses, and algorithms for their traversal and manipulation. The emphasis is on using these structures and assessing the relative effectiveness of alternative implementations.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>CIS<em>2500, (1 of CIS</em>1910, ENGG*1500)</td>
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<tr>
<td>Equates(s):</td>
<td>CIS*2650</td>
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<tr>
<td>CIS*2520</td>
<td>Software Systems Development and Integration W (3-2)</td>
<td>0.75</td>
<td>Techniques and tools used in the development of large software systems. Methods for organizing and constructing modular systems, manipulating files, an introduction to interface design, and use of databases. Software tools for managing projects, database connectivity, configuration management, and system application programmer interfaces.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>CIS<em>2430, CIS</em>2520</td>
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<td>Restriction(s):</td>
<td>CIS*2430</td>
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<tr>
<td>CIS*2530</td>
<td>Software Design II W (3-2)</td>
<td>0.50</td>
<td>This course introduces the Object Oriented (OO) approach to programming and algorithm design. Topics will include the creation and use of objects from class libraries, user defined objects, inheritance, modularity, generic code, components, collections and containers, and an introduction to OO design methodologies.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td>CIS*2540</td>
<td>Software Systems Development and Integration II W (3-2)</td>
<td>0.75</td>
<td>Techniques and tools used in the development of large software systems. Methods for organizing and constructing modular systems, manipulating files, an introduction to interface design, and use of databases. Software tools for managing projects, database connectivity, configuration management, and system application programmer interfaces.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>CIS<em>2430, CIS</em>2520</td>
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<tr>
<td>Restriction(s):</td>
<td>CIS*2430</td>
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<tr>
<td>CIS*2550</td>
<td>Software Systems Development and Integration III W (3-2)</td>
<td>0.75</td>
<td>Techniques and tools used in the development of large software systems. Methods for organizing and constructing modular systems, manipulating files, an introduction to interface design, and use of databases. Software tools for managing projects, database connectivity, configuration management, and system application programmer interfaces.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>CIS<em>2430, CIS</em>2520</td>
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<tr>
<td>Restriction(s):</td>
<td>CIS*2430</td>
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<tr>
<td>CIS*2560</td>
<td>Software Systems Development and Integration IV W (3-2)</td>
<td>0.75</td>
<td>Techniques and tools used in the development of large software systems. Methods for organizing and constructing modular systems, manipulating files, an introduction to interface design, and use of databases. Software tools for managing projects, database connectivity, configuration management, and system application programmer interfaces.</td>
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<tr>
<td>Prerequisite(s):</td>
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<tr>
<td>Restriction(s):</td>
<td>CIS*2430</td>
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<tr>
<td>CIS*2570</td>
<td>Software Systems Development and Integration V W (3-2)</td>
<td>0.75</td>
<td>Techniques and tools used in the development of large software systems. Methods for organizing and constructing modular systems, manipulating files, an introduction to interface design, and use of databases. Software tools for managing projects, database connectivity, configuration management, and system application programmer interfaces.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>CIS<em>2430, CIS</em>2520</td>
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<tr>
<td>Restriction(s):</td>
<td>CIS*2430</td>
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<tr>
<td>CIS*2580</td>
<td>Software Systems Development and Integration VI W (3-2)</td>
<td>0.75</td>
<td>Techniques and tools used in the development of large software systems. Methods for organizing and constructing modular systems, manipulating files, an introduction to interface design, and use of databases. Software tools for managing projects, database connectivity, configuration management, and system application programmer interfaces.</td>
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<tr>
<td>Prerequisite(s):</td>
<td>CIS<em>2430, CIS</em>2520</td>
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<tr>
<td>Restriction(s):</td>
<td>CIS*2430</td>
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CIS*3110 Operating Systems I W (3-1) [0.50]
Operating Systems in theory and practice. Components in a system: scheduling and resource allocation; process management, multi-programming, multi-tasking; I/O control and file systems; mechanisms for client-server computing. Examples from contemporary operating systems.
Prerequisite(s): (CIS*2500 or CIS*2650), Recommended (CIS*2030 or ENGG*2410).

CIS*3120 Digital Systems I W (3-2) [0.50]
This course examines Boolean algebra, minimization of Boolean expressions, design of combinational and sequential logic circuits, memory design, control, ALU, bus design, microprogramming and CPU design.
Prerequisite(s): CIS*2030

CIS*3150 Theory of Computation F (3-0) [0.50]
This course explores the theory of computation including automata theory, Turing machines and their variants, formal languages, parsing, the Halting problem, undecidability, and NP-completeness.
Prerequisite(s): (CIS*2450 or CIS*2750), CIS*3490
Restriction(s): CIS*3620, CIS*4600, CIS*4620

CIS*3190 Software for Legacy Systems W (0-0) [0.50]
This course is an introduction to legacy software systems used in business, manufacturing, and engineering. Topics include COBOL programming, mainframe systems, and integration of legacy systems with contemporary computing systems. (Offered through Distance Education format only.)
Prerequisite(s): CIS*2500 or work experience in a related field.

CIS*3210 Computer Networks F (3-1) [0.50]
This course covers the high-level (protocol) oriented aspects of computer networks, specifically: application, session, transport and network layers. It includes the internet, socket-level programming, multimedia and quality of service issues. The hardware aspects (switches, LANs, modems, transmission paths) are covered at only a functional level.
Prerequisite(s): CIS*3110
Restriction(s): CIS*4200

CIS*3250 Software Design IV F (3-3) [0.50]
This course is a study of software architectures and system design methodologies. This will include advanced techniques for project management and experience evaluating software tools. The course has an applied focus and will involve software design and development experiences in teams, a literacy component, and the use of software development tools. (First offering - Fall 2012)
Prerequisite(s): CIS*2250, CIS*2500

CIS*3260 Software Design IV V (3-3) [0.50]
This course covers the high-level (protocol) oriented aspects of computer networks, specifically: application, session, transport and network layers. It includes the internet, socket-level programming, multimedia and quality of service issues. The hardware aspects (switches, LANs, modems, transmission paths) are covered at only a functional level.
Prerequisite(s): CIS*2430, CIS*2750, CIS*3250

CIS*3490 The Analysis and Design of Computer Algorithms W (3-2) [0.50]
The design and analysis of efficient computer algorithms are studied. Topics which will be studied include: standard methodologies, asymptotic behaviour, optimality, lower bounds, implementation considerations, graph algorithms, matrix computations (e.g. Strassen's method), NP-completeness.
Prerequisite(s): (CIS*1000 or CIS*2910), (CIS*2420 or CIS*2520)

CIS*3530 Data Base Systems and Concepts F (3-1) [0.50]
Review of data organization and data management principles with the perspective of analyzing applications suitable for implementation using a DBMS. Analysis of several data base models, query specification methods, and query processing techniques. Overview of several related issues including concurrency control, security, integrity and recovery. Students are expected to demonstrate concepts through project assignments.
Prerequisite(s): (CIS*2420 or CIS*2520), (CIS*2450 or CIS*2750)

CIS*3700 Introduction to Intelligent Systems W (3-1) [0.50]
This course covers the core topics of Artificial Intelligence, namely: agents and environment, search, knowledge representation, reasoning, and learning. The last three topics are covered using logic as the common formalism for coherence. The course introduces a broad range of basic concepts, terminology, and applications, in addition to providing some specific, widely applicable methodologies.
Prerequisite(s): (CIS*3750 or CIS*3760), (CIS*2460 or STAT*2040)
Restriction(s): CIS*4750, CIS*4760

CIS*3750 System Analysis and Design in Applications F (3-2) [0.75]
An introduction to the issues and techniques encountered in the design and construction of software systems. The theory and models of software evolution. Topics include requirements and specifications, prototyping, design principles, object-oriented analysis and design, standards, integration, risk analysis, testing and debugging.
Prerequisite(s): CIS*2750
Restriction(s): CIS*3430

CIS*3760 Software Engineering W (3-2) [0.75]
This course is an examination of the software engineering process, the production of reliable systems and techniques for the design and development of complex software. Topics include object-oriented analysis, design and modeling, software architectures, software reviews, software quality, software engineering, ethics, maintenance and formal specifications.
Prerequisite(s): CIS*2750, (CIS*3110 recommended)
Restriction(s): CIS*3200

CIS*4000 Applications of Computing Seminar F/W (0-6) [0.50]
This capstone course provides students an opportunity to combine their area of application with their studies in computing via a course project and seminar series. Application areas discussed in any particular semester will depend on areas of application selected by students. Students are required to present their work in a seminar and also to participate in the critical analysis and review of the work of other students taking this course.
Prerequisite(s): Registration in semester 7 or higher of the B. Comp. Major in Computer Science and completion of a minimum of 2.50 credits in an Area of Application.

CIS*4050 Digital Systems II F (3-1) [0.50]
This course examines central processor architectures, control and microprogramming, memory systems, special architectures, underlying support for special architectures, architectures suitable for very large scale integration. (Offered in even-numbered years and may be offered in odd-numbered years.)
Prerequisite(s): CIS*3110, CIS*3120

CIS*4110 Computer Security V (3-1) [0.50]
This course is a practical survey of the principles and practice of information security. Topics include but are not limited to encryption (symmetric and public key cryptography, key exchange, authentication), security issues and threats (eavesdropping, impersonation, denial of service, viruses, worms, access violations, PKI), system and network security, intrusion detection, access control (DAC, MAC, RBAC), database security, the common criteria, and threat risk management.
Prerequisite(s): CIS*3110

CIS*4150 Software Reliability and Testing F (2-2) [0.50]
This course serves as an introduction to systematic methods of testing and verification, covering a range of static and dynamic techniques and their use within the software development process. Concepts such as defining necessary reliability, developing operational profiles, techniques to improve and predict software reliability, preparing and executing tests, black box testing, white box testing, unit testing, system testing, and integration testing will be explained.
Prerequisite(s): CIS*3750 or CIS*3760

CIS*4210 Telecommunications W (3-1) [0.50]
This course covers the low-level and the hardware-oriented aspects of computer communications, specifically the physical, link, and network layers. It includes basic telecommunication technology, local area networks, low level protocols, switching technologies, wireless and mobile networking, data and stream compression, and error coding. (Offered in odd-numbered years.)
Prerequisite(s): CIS*3750 or CIS*3760
Restriction(s): CIS*4200

CIS*4250 Software Design V F (0-6) [0.50]
This is a capstone course which applies the knowledge gained from the previous Software Design courses to a large team project. The course has an applied focus and will involve software design and development experiences in teams, a literacy component, and the use of software development tools. (First offering - Fall 2013)
Prerequisite(s): CIS*2750, CIS*3260, CIS*3750

CIS*4300 Human Computer Interaction F (2-2) [0.50]
This course examines the methods for user interface software design, including interface representations and testing. Topics which will be studied include the evaluation and design of sample application systems, impacts of computer-based information systems on individuals and organizations, implementation and testing tools, and planning on learning stages and design of assistance subsystems.
Prerequisite(s): CIS*3110, (CIS*3750 or CIS*3760)
CIS*4410 Trends in Distributed Systems W (3-1) [0.50]
This course examines the technical issues surrounding modern and future distributed commercial enterprises. Special attention is given to new communication modes, high volume, data-intensive systems, distributed transactions and security mechanisms.

Pre requisite(s): CIS*3210, (CIS*3750 or CIS*3760)

CIS*4430 Information Organization and Retrieval W (3-1) [0.50]
This course studies advanced techniques for information management. This includes the analysis of advanced indexing structures, information retrieval, feedback strategies, text searching, automatic indexing, database query optimization and system support, web based retrieval. (Offered in even-numbered years and may be offered in odd-numbered years.)

Pre requisite(s): CIS*3110, CIS*3530, (CIS*3750 or CIS*3760)

CIS*4450 Special Topics in Information Science U (3-1) [0.50]
A variety of advanced topics mainly from areas within general information processing. Subject areas discussed in any particular semester will depend on the interests of the students and the instructor. Students should check with the Department of Computing and Information Science to determine what topic will be offered during specific semesters and which prerequisites, if any, are appropriate.

Restr ict ion(s): Instructors consent required.

CIS*4500 Special Topics in Computing Science U (3-1) [0.50]
A variety of advanced topics within Computing Science. Subject areas discussed in any particular semester will depend upon the interests of both the students and the instructor. Students should check with the Department of Computing and Information Science to determine what topic will be offered during specific semesters and which prerequisites, if any, are appropriate.

Restr ict ion(s): Instructor consent required.

CIS*4650 Compilers W (3-1) [0.50]
This course is a detailed study of the compilation process. Topics include interpreters, overall design implementation of a compiler, techniques for parsing, building and manipulating intermediate representations of a program, implementation of important features, code generation and optimization.

Pre requisite(s): CIS*2030, CIS*3110, CIS*3150
Rest rict ion(s): CIS*3650

CIS*4720 Image Processing and Vision W (3-1) [0.50]
This course is an introduction to the process of image processing. Emphasis is placed on topics such as image enhancement, segmentation morphological analysis, texture analysis, visualization and image transformations. Applications of image processing in medicine, forensics, food and security are surveyed. (Offered in odd-numbered years.)

Pre requisite(s): (CIS*2450 or CIS*2750), CIS*3110, (CIS*2460 or STAT*2040), (CIS*3700 recommended)
Rest rict ion(s): CIS*4760

CIS*4780 Computational Intelligence F (3-1) [0.50]
This course introduces concepts of soft computing: modelling uncertainty, granular computing, neurocomputing, evolutionary computing, probabilistic computing and soft computing for software engineering. (Offered in odd-numbered years.)

Pre requisite(s): (CIS*3750 or CIS*3760) CIS*3490, (CIS*2460 or STAT*2040), (CIS*5700 recommended)
Rest rict ion(s): CIS*4750

CIS*4800 Computer Graphics W (3-1) [0.50]
This course is an introduction to computer graphics. Topics include graphics programming concepts, geometrical transformations, viewing 3-D projections, raster graphics, sculptured surfaces, visible surface determination, image processing and other special topics. Practical issues will be covered by assignment using currently available graphics equipment. (Offered in even-numbered years.)

Pre requisite(s): CIS*3110, (CIS*3750 or CIS*3760)

CIS*4820 Game Programming W (3-1) [0.50]
This course will focus on the components found in modern 3-D game engines. It will emphasize the algorithms and data structures required to create real-time computer graphics, sound and network communications. (Offered in odd-numbered years.)

Pre requisite(s): CIS*3110, (CIS*3430 or CIS*3750)

CIS*4900 Computer Science Project S,F,W (0-6) [0.50]
Planning, developing and writing a research proposal under individual faculty supervision. The course, in continuation with CIS*4910 provides senior undergraduates an opportunity to pursue an independent course of study. The topic selected will be determined by agreement between the student and the faculty member with expertise in the area.

Pre requisite(s): 7.00 credits in CIS
Rest rict ion(s): Instructor consent required.

CIS*4910 Computer Science Thesis S,F,W (0-6) [0.50]
This course is a continuation of CIS*4900. The student will conduct and write an undergraduate thesis under the individual supervision of a faculty member. In addition the student is required to present his/her work in a seminar and also participate in the critical analysis and review of the work of other students taking this course.

Pre requisite(s): CIS*4900
Rest rict ion(s): Instructor consent required.
## Co-operative Education

**Co-operative Education & Career Services**

COOP*XXXX courses are limited to students registered in a co-operative education program.

### COOP*1000 Co-op Work Term I F,W,S (3-0) [0.00]

This is a semester long experience in a paid work setting. Co-op work semesters differ depending on the program and major. Location of the semester is varied. Refer to program of study for the semester in which this is scheduled. Students must obtain a passing grade in order to continue in the Co-op Program.

**Prerequisite(s):** COOP*1100

### COOP*1100 Introduction to Co-operative Education F,W (1-0) [0.00]

This course will introduce students to the theory and practice of co-operative education at the University of Guelph. Students will learn to take full advantage of the co-op option. They will acquire practice in the skills required to succeed in the competitive process of securing suitable work terms. Specifically, the course will cover: characteristics and expectations of the "new" world of work, interview skills, resume and cover letter writing, as well as general skills required to be successful in the co-op program. Students also obtain practice in the co-op employment process.

**Prerequisite(s):** 2.00 credits  
**Restriction(s):** Enrolment in a co-operative education program

### COOP*2000 Co-op Work Term II F,W,S (3-0) [0.00]

This is a semester long experience in a paid work setting. Co-op work semesters differ depending on the program and major. Location of the semester is varied. Refer to program of study for the semester in which this is scheduled. Students must obtain a passing grade in order to continue in the Co-op Program.

**Prerequisite(s):** Completion of previous co-op work requirements in COOP*1000

### COOP*3000 Co-op Work Term III F,W,S (3-0) [0.00]

This is a semester long experience in a work setting. Co-op work semesters differ depending on the program and major. Location of the semester is varied. Refer to program of study for the semester in which this is scheduled. Students must obtain a passing grade in order to continue in the Co-op Program.

**Prerequisite(s):** Completion of previous co-op work requirements in COOP*2000

### COOP*4000 Co-op Work Term IV F,W,S (3-0) [0.00]

This is a semester long experience in a work setting. Co-op work semesters differ depending on the program and major. Location of the semester is varied. Refer to program of study for the semester in which this is scheduled. Students must obtain a passing grade in order to continue in the Co-op Program.

**Prerequisite(s):** Completion of previous co-op work requirements in COOP*3000

### COOP*5000 Co-op Work Term V F,W,S (3-0) [0.00]

This is a semester long experience in a work setting. Co-op work semester differs depending on the program and the major. Location of the semester is varied. Refer to program of study for the semester in which this is scheduled. Students must obtain a passing grade in order to continue in the Co-op program.

**Prerequisite(s):** Completion of previous co-op work requirements in COOP*4000
## Crop Science

### CROP*1050 Green Energy - Fuel from Plants W (3-0) [0.50]
This course is a science-based examination of the potential for fuels derived from crops to contribute to sustainability of the energy supply, conservation of non-renewable resources and the mitigation of global climate change. This course covers fundamental principles underlying crop productivity and the conversion of plant biomass to various biofuels. This course applies scientific principles and quantitative analyses to evaluate the potential economic and environmental benefits of adoption of these alternative fuel sources. (Offered through Distance Education format only.)

**Restriction(s):** Not acceptable for students in the BSC, BSC(Agr) or BSC(Env) programs.

### CROP*3300 Grain Crops W (3-0) [0.50]
Management strategies and world production of the major temperate grain crops are studied relative to their botanical and physiological characteristics and to available environmental resources. The utilization of grain crops for human food, livestock feed, and various industrial products are examined. (Offered in odd-numbered years.)

**Prerequisite(s):** 1 of AGR*2050, AGR*2470, CROP*2110

### CROP*3310 Protein and Oilseed Crops F (3-0) [0.50]
Management strategies and world production of the major temperate protein and oilseed crops are studied relative to their botanical and physiological characteristics and to available environmental resources. The utilization of protein and oilseed crops for human food, livestock feed and various industrial products are examined. (Offered in odd-numbered years.)

**Prerequisite(s):** 1 of AGR*2451/2, AGR*2470, CROP*2110

### CROP*3340 Managed Grasslands W (3-2) [0.50]
Managed forage grasses and legumes provide grazing, conserved feed, and a wider range of services to the environment and society at large are covered in this course. Agro-ecological, genetic, and managerial considerations will be integrated toward addressing questions of ruminant production and environmental management. Species will be distinguished morphologically and physiologically, focusing on adaptation to climatic, edaphic, and managerial constraints. Topics will include: physiological attributes of forage species, sward lifespan, establishment and maintenance practices, forage quality indices and harvest management. (Offered in even-numbered years.)

**Prerequisite(s):** 1 of AGR*2050, AGR*2470, CROP*2110

### CROP*4220 Cropping Systems W (3-2) [0.50]
Design of cropping systems for specific livestock, poultry and cash crop enterprises; integration of all factors affecting crop yields, quality and economy of production such as choice and interchangeability of crops, crop sequence, tillage, pest control, seasonal work programming. harvesting, drying and storage.

**Prerequisite(s):** (2 of CROP*3300, CROP*3310, CROP*3320, CROP*3330), (1 of ENVS*3080, ENVS*4090, SOIL*3080, SOIL*4090)

### CROP*4240 Weed Science F (3-3) [0.50]
Weeds will be studied in relation to agricultural practices. Principles of chemical, mechanical and biological control will be outlined. Laboratories will include weed identification, weed control methods, and demonstrations of the effects of various herbicides.

**Prerequisite(s):** AGR*2451/2 or AGR*2470

### CROP*4260 Crop Science Field Trip F (0-4) [0.50]
This field study course is designed to increase the student's knowledge of agricultural production, agricultural policy and agri-business. Students will tour the midwestern United States just prior to the start of the fall semester, visiting cash crop, horticultural and livestock farms, and supporting industries such as processing, manufacturing, elevators and stockyards. A student fee will be assessed to cover transportation and lodging.

**Prerequisite(s):** 12.50 credits including AGR*2470

**Restriction(s):** A cumulative average of 65% and instructor consent required.
ECON*1050 Introductory Microeconomics S,F,W (3-0) [0.50]

An introduction to the Canadian economy: price determination, market structure and resource allocation; the behaviour of consumers and firms; market intervention by government. Some of the economic issues addressed may include agricultural price supports, rent control, the NAFTA, environmental regulation, price discrimination, pay equity, and taxation. (Also offered through Distance Education format.)

Prerequisite(s): ECON*1050 or FARE*1040

Equates: ECON*1200

ECON*1100 Introductory Macroeconomics S,F,W (3-0) [0.50]

This course looks at the Canadian Economy in terms of aggregate performance and policy; analysis of the determinants of national income, employment and the price level, and the role of government monetary and fiscal policies in improving the rate of economic growth. (Also offered through Distance Education format.)

Prerequisite(s): ECON*1050, ECON*1100

ECON*2000 Economic Problems in Canada U (3-0) [0.50]

This course is a study of important socio-economic issues in Canada using the basic principles of macro and microeconomics. Topics may include population, poverty, foreign ownership, regional development, etc.

Prerequisite(s): ECON*1050, ECON*1100

ECON*2100 Economic Growth and Environmental Quality F (3-0) [0.50]

This course examines the implications of economic growth on the quality of the environment, employing the basic principles of economic analysis. (Also offered through Distance Education format.)

Prerequisite(s): ECON*1050 or FARE*1040

ECON*2200 Industrial Relations F (3-0) [0.50]

This is a survey course of the Canadian industrial relations system. Among the topics covered are: the growth and objectives of unions, the legal framework of collective bargaining, the effects of unions on industry and the economy, industrial conflict and public policies.

Prerequisite(s): ECON*1050

ECON*2310 Intermediate Microeconomics S,F,W (3-1) [0.50]

This course is an analysis of the behaviour of households and firms under alternative assumptions and market conditions. (Also offered through Distance Education format.)

Prerequisite(s): ECON*1100, (ECON*1050, or FARE*1040), (1 of MATH*1000, MATH*1030, MATH*1080, MATH*1200)

ECON*2410 Intermediate Macroeconomics S,F,W (3-1) [0.50]

This course is an analysis of closed economy models of aggregate spending, output, employment, prices and interest rates under alternative assumptions about the nature of labour, product and financial markets. The analysis of theories of consumption, investment and money demand. (Also offered through Distance Education format.)

Prerequisite(s): ECON*1100, (1 of MATH*1000, MATH*1030, MATH*1080, MATH*1200)

ECON*2420 Canadian Economic History U (3-0) [0.50]

This course surveys the development of the Canadian economy from the aboriginal economy to the early fur and fish trades, agricultural settlement, industrialization, the Great Depression, growth of the public sector and fast economic growth after World War Two. Particular attention is paid to international economic relations and to regional differences within Canada.

Prerequisite(s): ECON*1050, (ECON*1100 or HIST*2450)

ECON*2560 Theory of Finance F,W (3-0) [0.50]

This course looks at capital budgeting and long-term finance and investment decisions by firms and individuals. It introduces capital asset pricing under uncertainty and the concept of efficient markets. A major emphasis is on corporate finance. (Also offered through Distance Education format.)

Prerequisite(s): ECON*1100, (1 of ECON*2310, MATH*1000, MATH*1030, MATH*1080, MATH*1200), (1 of ECON*2740, PSYC*2010, STAT*2040, STAT*2050, STAT*2060, STAT*2080, STAT*2090, STAT*2100, STAT*2120)

Restriction(s): ECON*3460, ECON*3560

ECON*2650 Introductory Development Economics F (3-0) [0.50]

This course introduces students to the economic experience of developing countries, the ways in which economists try to understand it, and the implications for policy. The basic tools of economic analysis as taught in the introductory courses are used to analyse topics that may include theories of growth, trade, education, foreign investment, exchange rates, labour markets, the role of government, environmental sustainability and strategies related to agriculture, population, industry and investment.

Prerequisite(s): ECON*1050, ECON*1100

ECON*2720 Business History W (3-0) [0.50]

This course surveys the evolution of economic activity and organization from the industrial revolution to the present. Particular attention is given to the changing relationship between technology and business organization, the shift from proprietorship to corporation and the rise of multinational enterprise. Other topics may include the relationship between business and government, the role of the entrepreneur in the process of technical change and the evolution of work patterns and standards of living.

Prerequisite(s): ECON*1050, (ECON*1100 or any 1.50 credits in history)

ECON*2740 Economic Statistics F (3-1) [0.50]

This course is designed to prepare students conceptually and mathematically for ECON*2560, Theory of Finance and ECON*3740, Introduction to Econometrics. Topics include the summation operator, descriptive statistics, frequency distributions, probability and statistical independence, the binomial distribution, algebra of the expectation operator, discrete bivariate distributions, covariance, variance of a linear function of random variables, the normal and t distributions, sampling distributions, point and interval estimation, hypothesis testing and an introduction to ordinary least squares. Additional topics may be included at the instructor's discretion. Examples and assignment questions are drawn from economics and finance.

Prerequisite(s): ECON*1100, (ECON*1050, or FARE*1040), (1 of MATH*1000, MATH*1030, MATH*1050, MATH*1080, MATH*1200)

ECON*2770 Introductory Mathematical Economics F,W (3-1) [0.50]

This course applies the elements of calculus and matrix algebra to simple microeconomic and macroeconomic problems.

Prerequisite(s): ECON*1100, (ECON*1050, or FARE*1040), (1 of MATH*1000, MATH*1030, MATH*1080, MATH*1200)

ECON*3100 Game Theory W (3-1) [0.50]

The course introduces students to non-cooperative game theory, which is an important method of analysis for economics situations involving small numbers of interacting economic agents. The course is centered on the concept of Nash equilibrium, and applies this equilibrium concept to static and dynamic games with full as well as incomplete information. The purpose of the course is to enable students to take any economic situation, find an economic model (game) that depicts the incentives facing the participants, and analyze the game to predict the behaviour of the economic agents.

Prerequisite(s): ECON*2310, ECON*2410, (ECON*2770 or MATH*1210)

Restriction(s): ECON*3770

ECON*3300 Economics of Health and the Workplace U (3-0) [0.50]

This course will introduce students to the economic experience of developing countries, the ways in which economists try to understand it, and the implications for policy. The basic tools of economic analysis as taught in the introductory courses are used to analyse topics that may include theories of growth, trade, education, foreign investment, exchange rates, labour markets, the role of government, environmental sustainability and strategies related to agriculture, population, industry and investment.

Prerequisite(s): ECON*2310, (1 of ECON*2740, PSYC*2010, STAT*2040, STAT*2050, STAT*2060, STAT*2080, STAT*2090, STAT*2100, STAT*2120)

ECON*3400 The Economics of Personnel Management U (3-0) [0.50]

In this course, we examine the economics of personnel management in organizations. Using mainstream microeconomic and behavioural economic theory, we will consider such issues as recruitment, promotion, financial and non-financial incentives, compensation, job performance, performance evaluation, and investment in personnel. The interplay between theoretical models and empirical evidence will be emphasized in considering different approaches to the management of personnel.

Prerequisite(s): ECON*2310 or ECON*2200
XII. Course Descriptions, Economics

ECON*3460 Introduction to Finance F (3-0) [0.50]
This course surveys the world economy with a particular focus on the industrial revolution in Europe, demographic change, the rise to prominence of the 'settler colonies', the origins of international inequality and the experience of globalization during the late nineteenth century. Particular attention is given to international trade, capital flows and migration.

Prerequisite(s): ECON*1050, ECON*1100, (1 of ECON*2310, EURO*1050, EURO*2070, HIST*2450, HUMN*2070, IDEV*2010, IDEV*2500)

ECON*3470 Introduction to Econometrics F,W (3-1) [0.50]
This computer-based course involves the specification and estimation of economic models and the testing of economic hypotheses using appropriate test statistics. Topics include the summation operator, expectation operator, ordinary least squares estimation, dummy variables, seasonality, multicollinearity, heteroskedasticity, autocorrelation, data sources (including uses of the Data Resource Centre). Additional topics may be included at the instructor's discretion. Heavy emphasis will be placed on applications and writing up results. Some use of spreadsheet software (e.g. QuattroPro, Excel) and statistical software (e.g. TSP, SHAZAM) will be required.

Prerequisite(s): ECON*2310, ECON*2410, (1 of ECON*2740, STAT*2040, STAT*2060, STAT*2080), (ECON*2770 or MATH*1210)

ECON*3500 Urban Economics U (3-0) [0.50]
This course is designed to apply the basic principles of intermediate economic theory to problems facing urban areas with emphasis on Canada. Topics to be covered will include such things as housing, urban poverty, municipal financing, transportation.

Prerequisite(s): ECON*2310

ECON*3520 Labour Economics U (3-0) [0.50]
A study of the labour market, wage determination and the relationship between wages, employment, and prices.

Prerequisite(s): ECON*2310, (1 of ECON*2740, PSYC*2010, STAT*2040, STAT*2050, STAT*2060, STAT*2080, STAT*2090, STAT*2100, STAT*2120)

ECON*3530 Industrial Organization U (3-0) [0.50]
This course examines industries in which firms have the potential to exercise market power. Topics include how the competitive environment affects the behaviour of firms, measuring the extent of market power on welfare. The performance of markets under monopolies, dominant firms, cartels and oligopolies is examined and related aspects of Canadian competition policy and regulations are discussed.

Prerequisite(s): ECON*2310, (ECON*2770 or MATH*1210)

ECON*3560 Economics of Regulation U (3-0) [0.50]
This course examines industries in which firms have the potential to exercise market power. Topics include how the competitive environment affects the behaviour of firms, measuring the extent of market power on welfare. The performance of markets under monopolies, dominant firms, cartels and oligopolies is examined and related aspects of Canadian competition policy and regulations are discussed.

Prerequisite(s): ECON*2310

ECON*3610 Public Economics U (3-0) [0.50]
This course examines the interventionist role of government in the economy. It examines several sources of market failure which are used to justify government intervention. These include public goods, externalities and redistribution. The course also evaluates alternative sources of government revenue from the perspectives of both equity and efficiency. These include the personal and corporate income taxes, sales taxes and wealth taxes.

Prerequisite(s): ECON*2310

ECON*3620 International Trade U (3-0) [0.50]
An introduction to the general equilibrium analysis of international trade, international factor movements and commercial policy. Special emphasis is given to Canada's international trade relationships.

Prerequisite(s): ECON*2310

ECON*3660 Economics of Equity Markets U (3-0) [0.50]
This course studies the economic literature regarding the determination of security prices and the operation of the stock market. (Also offered through Distance Education format.)

Prerequisite(s): ECON*2310, (ECON*2560 or ECON*3560)

ECON*3710 Advanced Microeconomics F,W (3-1) [0.50]
This course provides an in-depth treatment of consumer and producer theory leading to the general equilibrium model of the economy and the study of welfare economics.

Prerequisite(s): ECON*2310, (ECON*2770 or MATH*1210). A grade average of 70%

ECON*3720 History of the World Economy Since 1850 U (3-0) [0.50]
The focus of the course is the study of the evolution of the world economy since 1850. Topics may include the costs and benefits of empire to Britain, Anglo-German trade rivalry, the rise to prominence of "settler colonies", economic growth in the Third World, reparations and war debt, agricultural overproduction, origins of the Great Depression, the 1945-1973 boom in world production and trade.

Prerequisite(s): ECON*1050, ECON*1100, (1 of ECON*2310, EURO*1050, HIST*2450, HUMN*2070, IDEV*2010, IDEV*2500)

ECON*3730 Europe and the World Economy to 1914 U (3-0) [0.50]
This course surveys the world economy with a particular focus on the industrial revolution in Europe, demographic change, the rise to prominence of the 'settler colonies', the origins of international inequality and the experience of globalization during the late nineteenth century. Particular attention is given to international trade, capital flows and migration.

Prerequisite(s): ECON*1050, ECON*1100, (1 of ECON*2310, EURO*1050, EURO*2070, HIST*2450, HUMN*2070, IDEV*2010, IDEV*2500)

ECON*3740 Introduction to Econometrics F,W (3-1) [0.50]
This computer-based course involves the specification and estimation of economic models and the testing of economic hypotheses using appropriate test statistics. Topics include the summation operator, expectation operator, ordinary least squares estimation, dummy variables, seasonality, multicollinearity, heteroskedasticity, autocorrelation, data sources (including uses of the Data Resource Centre). Additional topics may be included at the instructor's discretion. Heavy emphasis will be placed on applications and writing up results. Some use of spreadsheet software (e.g. QuattroPro, Excel) and statistical software (e.g. TSP, SHAZAM) will be required.

Prerequisite(s): ECON*2310, ECON*2410, (1 of ECON*2740, STAT*2040, STAT*2060, STAT*2080), (ECON*2770 or MATH*1210)

ECON*3760 Fundamentals of Derivatives W (3-0) [0.50]
This course covers the fundamentals of derivatives with emphasis on theory and empirical applications in the context of corporate price risk management. Issues of corporate governance and business ethics as they relate to price risk management will be covered.

Prerequisite(s): ECON*2310, (1 of ECON*2560, ECON*3460, ECON*3560)

ECON*3810 Advanced Macroeconomics W (3-0) [0.50]
This course provides an advanced study of a wide range of issues in intertemporal macroeconomics. When constructing macroeconomic models in this course we will explicitly take into account microeconomic foundations. The models constructed will be used to study short-run fluctuations (or business cycles) and long term growth, and to explain cross country income disparities. Topics also include open economy macroeconomic issues.

Prerequisite(s): ECON*2410, (ECON*2740 or STAT*2040), (ECON*2770 or MATH*1210)

ECON*3860 International Finance F (3-0) [0.50]
This course focuses on international macroeconomic issues: the balance of payments; models of exchange rate determination; foreign exchange risk and covered interest arbitrage; alternative exchange rate regimes; small versus large economies; monetary and fiscal policy in an open economy.

Prerequisite(s): ECON*2410, (ECON*2560 or ECON*3560)

ECON*3960 Money, Credit and the Financial System U (3-0) [0.50]
This course explores the economics of banking, other financial institutions and credit markets.

Prerequisite(s): ECON*2410, (ECON*2560 or ECON*3560)

ECON*4400 Economics of Organizations and Corporate Governance U (3-0) [0.50]
This course introduces students to the latest developments in the economic analysis of the inside workings of firms. The course is centered on the concept of organizational structure, which is made up of three variables: allocation of decision rights, performance evaluation and performance incentives. The course tries to explain the diversity of economic organizations, and more generally, why economic activity is sometimes carried out through firms and sometimes through markets. (Offered through Distance Education only.)

Prerequisite(s): ECON*2310 Students must have completed a minimum of 12 credits.

ECON*4500 Topics in Urban Economics U (3-0) [0.50]
This course will investigate selected theoretical and applied topics in urban economics in depth. Among topics which might be treated are location theory, the theory of spatial structure, transportation economics, the economics of housing, the economics of land use regulation, urban public finance.

Prerequisite(s): ECON*3740, (ECON*3710 or ECON*3500)
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Prerequisite(s)</th>
<th>Description</th>
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<tbody>
<tr>
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<td>ECON*3740</td>
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<td>Selected topics in the theoretical and empirical study of the organization and performance of firms and markets.</td>
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<td>ECON*3740</td>
<td>Applied Econometrics I F (3-0)</td>
<td>ECON*3740</td>
<td>This course discusses the classical linear regression model and its extensions including generalized least squares and the theory and application of F tests. The maximum likelihood principle is introduced, as are alternative approaches to testing, e.g., LM, LR and Wald tests. Additional topics may be included at the instructor’s discretion. Matrix algebra is used and proof of the Gauss-Markov theorem is included.</td>
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**ECON*4640 Applied Econometrics II W (3-0) [0.50]**

This course explores the theory of complex aggregate economic models; their assumptions, construction, and use in the analysis of macroeconomic activity.

Prerequisite(s): ECON*3600 or ECON*3810, ECON*3710, ECON*3740

**ECON*4650 Financial Markets Risk Management U (3-0) [0.50]**

This course covers the advanced theory and applications of financial derivatives (for underlying assets such as equity and debt instruments, and exchange rate instruments) as it relates to the financial strategy of the firm. Specific emphasis will be devoted to the development of a comprehensive and coherent set of risk management policies and controls.

Prerequisite(s): 1 of ECON*3510, ECON*3660, ECON*3740, ECON*3860, ECON*3960

**ECON*4700 Advanced Mathematical Economics F (3-1) [0.50]**

This course provides students with the necessary mathematical skills required to build rigorous models in economics, including differential and integral calculus, optimization and comparative statics analysis and advanced topics in linear algebra. It continues in the second half with application to modelling in a particular area of economics. The specific area will vary from year to year, and can include such topics as general equilibrium modelling, mathematical Finance models, or economics of the environment.

Prerequisite(s): 1 of AGEC*4240, ECON*3510, ECON*3760, ECON*3960, FARE*4240

**ECON*4710 Advanced Topics in Microeconomics F (3-0) [0.50]**

An intensive study of the scope, methodology, and content of contemporary microeconomics; selected topics in partial and general equilibrium analysis.

Prerequisite(s): ECON*3710

**ECON*4720 Topics in Economic History U (3-0) [0.50]**

This course uses economic theory to analyse the process of historical economic change.

Prerequisite(s): 12.50 credits including 1 of ECON*2310, ECON*2720, ECON*3720, ECON*3730

**ECON*4750 Topics in Public Economics U (3-0) [0.50]**

This course examines selected topics related to the expenditure and taxation functions of government. Topics may include issues in public good theory such as the free rider problem, the problem of eliciting truthful revelation of preferences and the use of taxes as a corrective device for externalities. The course may also address optimal taxation as well as tax evasion. Throughout this course the trade-off between efficiency and equity is emphasized.

Prerequisite(s): ECON*3710

**ECON*4760 Topics in Monetary Economics U (3-0) [0.50]**

Selected topics in monetary economics such as theories of the demand for and supply of money, the nature and role of private banks and central banks, the transmission processes of monetary policy are examined.

Prerequisite(s): 1 of ECON*3600 or ECON*3810, ECON*3740, ECON*3510, ECON*3710, ECON*3960

**ECON*4780 Topics in Industrial Organization U (3-0) [0.50]**

Selected topics in the theoretical and empirical study of the organization and performance of firms and markets are covered in this course. Topics may include: strategic behaviour of firms such as actions to deter entry of rivals, pre-emptive choice of location and product quality, and research and development; the regulation of firms under uncertainty; econometric analysis of the use of market power; and modern advances in the theory of the firm.

Prerequisite(s): ECON*3530, ECON*3740

**ECON*4790 Topics in Labour Market Theory U (3-0) [0.50]**

Selected topics in advanced labour market theory with emphasis on empirical evidence for the Canadian labour market are covered in this course.

Prerequisite(s): ECON*3740, ECON*3710 or ECON*3520

**ECON*4800 Competitiveness and Strategic Advantage U (3-0) [0.50]**

This course is about the creation and maintenance of long-term vision for the corporation from the perspective of the general manager. It is concerned with both the determination of strategic direction and the management of the strategic process.

Prerequisite(s): 14.50 credits including 1 of AGEC*3320, BUS*3320, MGMT*3320, ECON*2310, ECON*2560 or ECON*3560

**ECON*4810 Advanced Topics in Macroeconomics W (3-0) [0.50]**

This course explores the theory of complex aggregate economic models; their assumptions, construction, and use in the analysis of macroeconomic activity.

Prerequisite(s): ECON*3600 or ECON*3810, ECON*3710, ECON*3740

**ECON*4830 Economic Development U (3-0) [0.50]**

A study of the theories, problems and policies of economic growth with special reference to underdeveloped countries.

Prerequisite(s): ECON*2310

**ECON*4840 Applied Econometrics II W (3-0) [0.50]**

This is a continuation of ECON*4640 and deals with asymptotic theory, maximum likelihood estimation, instrumental variables, simultaneous equation models and selected topics such as models for limited dependent variables, models for panel data, ARCH models, units roots and error correction models. There will be applications to data using statistical software.

Prerequisite(s): ECON*4640

**ECON*4860 Seminar in Current Economic Problems U (3-0) [0.50]**

In a seminar setting, selected contemporary economic problems are examined.

Prerequisite(s): 1 of ECON*3600 or ECON*3810, ECON*3710, ECON*3740

**ECON*4880 Topics in International Economics U (3-0) [0.50]**

Selected topics involving the advanced analysis of the causes and effects of trade and financial flows and international factor movements are covered in this course.

Prerequisite(s): 1 of ECON*3600 or ECON*3810, ECON*3710 or ECON*3620

**ECON*4890 History of Economic Thought U (3-0) [0.50]**

A study of the development of economic theory, the tools of economic analysis, and the evaluation of economics as a science, together with an analysis of the circumstances affecting this development.

Prerequisite(s): ECON*2310, ECON*2410

**ECON*4900 Special Study in Economics S,F,W (3-0) [0.50]**

The special study option is designed to provide senior undergraduate students with an opportunity to pursue an independent course of study. The subject matter will be related to regular 4000 level courses. Students will be required to submit a major paper/report on the subject matter studied. Formal agreement between the student and instructor of the course is required as well as the approval of the department chair or designee.

Prerequisite(s): 1 of ECON*3600 or ECON*3810, ECON*3710 or ECON*3620

**ECON*4910 Special Study in Economics S,F,W (3-0) [0.50]**

Same description as for ECON*4900.

**ECON*4930 Environmental Economics U (3-0) [0.50]**

This course is an advanced treatment of the interrelationship between economic activities and the state of the natural environment from an economics perspective.

Prerequisite(s): 14.50 credits including ECON*2310, ECON*2410, ECON*2770

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XII. Course Descriptions, Economics

Last Revision: Oct. 19, 2012
Environmental Design and Rural Development

School of Environmental Design and Rural Development

EDRD*1400 Introduction to Design W (3-0) [0.50]
This course is designed to increase visual awareness and recognition of natural and planned design elements in the environment. Students will investigate the roles of designers and seek to develop an understanding of design as an applied process that responds to human needs.
Equate(s): MCS*1400
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

EDRD*2020 Interpersonal Communication F (3-0) [0.50]
This course introduces dyadic and small-group communication. The focus is on communication style and effectiveness with attention to verbal and nonverbal communication, listening and conflict. (Offered through Distance Education only.)

EDRD*2650 Introduction to Planning and Environmental Law F,W (3-0) [0.50]
The goal of the course is to introduce the students to the principles and processes that govern the management of land use and the protection of the environment. This will be done through an examination of the key legislation and regulations applied to land use and the environment. (Offered through Distance Education format only.)
Prerequisite(s): 5.00 credits

EDRD*3000 Program Development and Evaluation W (3-0) [0.50]
Concepts and processes of program development and evaluation of rural extension programs. Programs designed with client involvement, situational analysis and priority setting will receive particular attention.
Prerequisite(s): 10.00 credits
Equate(s): REXT*3000

EDRD*3050 Agricultural Communication I F (3-0) [0.50]
Practical and effective ways of communicating information to a broad audience via the media, focusing mainly on print media (newspapers and magazines) and agricultural media. Strong emphasis on writing and preparing ready-to-use material and strategies for getting it published. (Students will develop an understanding of the news/communications business and find where they can fit into it or use it to their advantage to get a job. Contact with professionals will be a major part of the course).
Prerequisite(s): 10.00 credits
Equate(s): REXT*3050, REXT*4050

EDRD*3120 Educational Communication F (3-0) [0.50]
This course addresses the communication concepts and practices within the formal and non-formal educational contexts. Communication is central to teaching and learning because communication mediates a conscious effort either on the part of the learners to learn, or on the part of the teachers to provide and transfer knowledge, attitudes and skills. (Offered through Distance Education only.)
Prerequisite(s): 5.00 credits
Restriction(s): REXT*3100

EDRD*3140 Organizational Communication S (3-0) [0.50]
This course explores the application of communication process theory to organizations with special emphasis on internal organizational processes experienced at individual, group and organizational levels. Students examine communication in different organizational contexts including civil society, government, business and transnational corporations. (Offered through Distance Education only.)
Prerequisite(s): 5.00 credits
Restriction(s): REXT*3040

EDRD*3160 International Communication W (3-0) [0.50]
This course examines the role of communication in global development. Emphasis is on the application of interpersonal, intercultural communications and the mass media in the development process. (Offered through Distance Education only.)
Prerequisite(s): 10.00 credits
Restriction(s): REXT*3060

EDRD*3400 Sustainable Communities W (2-1) [0.50]
The structure, function and trends affecting agri-food community settings including historical, ecological and social factors, institutions, agencies and change processes are discussed. The agricultural role of the Provincial Government and the contemporary impact of the agri-industrial complex on Ontario communities will be considered mainly from a comparative perspective. Related topics will include physical infrastructure, political conflicts, labour markets, settlement patterns, housing, gender relations, landscape management, quality of life, sustainability and the promotion of community leadership.
Prerequisite(s): AGR*1250 or 10.00 credits
Restriction(s): AGR*3400

EDRD*3450 Watershed Planning Practice F,W (3-0) [0.50]
An introduction to the principles and practice of watershed-based planning, with an emphasis on Ontario, but with reference to other parts of Canada, the U.S. and international contexts. History of water resource use and abuse, basic concepts of hydrology, water resource management, ecosystem approaches, and planning theory are also included. (Offered through Distance Education format only.)
Prerequisite(s): 10.00 credits or instructor consent
Equate(s): UNIV*3400

EDRD*3500 Recreation and Tourism Planning F,W (3-0) [0.50]
Application of planning theory to recreation and tourism in the private and public sectors, approaches to implementing plans, and strategies for involving stakeholders in the planning process. Focus will also be on the impact of various approaches to planning recreation and tourism. (Offered through Distance Education only.)
Prerequisite(s): 10.00 credits
Equate(s): UNIV*3500

EDRD*4010 Tourism Planning in the Less Developed World W (3-0) [0.50]
This course will provide a discussion and investigation of tourism from an interdisciplinary point of view. The subject of tourism development cuts across many disciplines and is fundamental to a variety of scholars and practitioners working in tourism and development generally. While a variety of important theories and planning practices from a variety of disciplines have been selected for study, planning and community development theory will provide the overarching perspective. The features of planning theories and models on stress analysis and intervention into human and environmental systems. This perspective begins with the view that tourism is a complicated human construct and as such needs to be structured and guided in order to maximize the benefits to all stakeholders in the system. (Offered through Distance Education only.)
Prerequisite(s): 5 credits

EDRD*4020 Rural Extension in Change and Development F (3-0) [0.50]
The planning and management of development programs with emphasis on the role of non-formal education and counseling in influencing behavioral change and adoption of innovation. Case studies include cross cultural and international considerations.
Prerequisite(s): 10.00 credits
Equate(s): REXT*4020

EDRD*4060 Agricultural Communication II W (3-0) [0.50]
Application of practical and effective writing and communication techniques, mainly through the production of print publications and the further development and application of journalistic writing and editing skills. Special emphasis on issues important to the agri-food industry.
Prerequisite(s): 1 of EDRD*3050, REXT*3050, equivalent
Equate(s): REXT*4060

EDRD*4120 Leadership Development in Small Organizations F (3-0) [0.50]
The main theories of leadership will be discussed with exploration of the current literature, practice leadership skills and perform relevant activities in an on-line environment. Emphasis will be placed on the communication challenges facing leaders in small organizations and the importance of developing a culture of shared leadership. (Offered through Distance Education only.)
Prerequisite(s): 10.00 credits
Restriction(s): REXT*4100

EDRD*4500 Planning Industrial Ecology: Design for Sustainability W (3-0) [1.00]
To create ecologically informed and professionally skilled scientists, engineers, planners, and managers by providing them with: systems-analytic frameworks to critically examine processes, products, infrastructure, management systems and public policies from the perspective of environmental sustainability; and the skill set to guide the design of appropriate responses. Course requires a science background, minimum OAC Chemistry or Physics. (Offered through Distance Education only.)
Prerequisite(s): 10.00 credits
Equate(s): UNIV*4500
Engineering

School of Engineering

Students who are not registered in the B.Eng. degree program may take no more than 3.00 Engineering (ENGG*XXX) credits.

Some ENGG* courses have priority access restrictions. Enrolment in these courses is restricted to students registered in B.Eng. Degree program. All other students will require a waiver form to be signed by the B.Eng. Program Counsellor.

ENGG*1070 Occupational Health and Safety W (2-0) [0.25]

This course presents the legal implications of occupational health and safety as expressed in the Environmental and Occupational Health and Safety Act, and exposes students to methodologies designed to ensure compliance with the Act. The course stresses safety initiatives and deals with specific safety issues such as noise levels, biosafety, hazardous waste management, safety in the workplace, radiation safety and industrial safety.

Prerequisite(s): 10.00 credits

Restrictions: Registration in the B.Eng. Program

ENGG*1100 Engineering and Design I F (2-4) [0.75]

Introduction to engineering and design by means of selected problems. Students integrate basic science, mathematics, and complementary studies to develop and communicate engineering solutions to specific needs using graphical, oral, and written means. Application of computer-aided drafting, spreadsheets, and other tools to simple engineering design problems. The practice of professional engineering and the role of ethics in engineering.

Restrictions: Registration in the B.Eng. Program

ENGG*1210 Engineering Mechanics I F,W (3-1) [0.50]

The fundamental principles of Newtonian mechanics; statics of particles in 2-D space; equilibrium of rigid bodies in 2-D; distributed forces; friction, linear and angular momentum of rigid bodies; conservation of energy; principles of impulse and momentum; and, plane motion of rigid bodies.

Prerequisite(s): MATH*1200

Restrictions: MATH*1210

ENGG*1500 Engineering Analysis W (3-1) [0.50]

This course deals with engineering applications of matrix algebra, vector spaces and computer techniques to solve linear systems. Topics include linear transformations, eigenvalues and eigenvectors, diagonalization and their applications. Additional topics include complex variable algebra, multi-variable functions, partial derivatives, maxima and minima.

Prerequisite(s): MATH*1200

Restrictions: MATH*1210

ENGG*2030 Traditional Energy Sources W (3-2) [0.50]

Traditional energy sources are studied from the standpoint of their historical development, the basic physical and chemical processes which underlie their use, to the infrastructure necessary for their exploitation. The maintenance of this infrastructure is examined along with estimated engineering lifetime. The course focuses on electric energy generated by both hydro and fossil fuel combustion, nuclear energy, fossil fuels, and locally used sources such as wood and peat.

Prerequisite(s): CHEM*1040, ENGG*2120

Restrictions: PHYS*3080

ENGG*2050 Emerging Energy Systems W (3-3) [0.75]

The basic principles and design of emerging energy systems are covered. The systems which form the basis of the course are solar thermal systems, solar photovoltaic systems, fuel cells, biofuels and wind energy technology. Mechanisms for storing energy generated from each of these systems are studied.

Prerequisite(s): ENGG*2030, PHYS*1010

ENGG*2100 Engineering and Design II F,W (2-4) [0.75]

This course is a progression in engineering design skills with particular emphasis on computer usage in design, oral communication of solutions and team skills. Computer usage in design will include advanced CAD/CAM/CAE tools; and database management software. An introduction to safety in engineering practice and design, and the concept of sustainable development are covered.

Prerequisite(s): Completion of 4.0 credits including ENGG*1100

ENGG*2120 Material Science F (3-2) [0.50]

Study of the mechanical, electrical, magnetic, optical and thermal properties of solids, Atomic order and disorder in solids, single-phase metals, and multiphase materials (their equilibrium and microstructure) are examined as a basis for understanding the causes of material properties. Interwoven throughout the course is an introduction to materials selection and design considerations.

Prerequisite(s): CHEM*1040, PHYS*1130

ENGG*2160 Engineering Mechanics II F (3-1) [0.50]

Fundamental principles of the mechanics of deformable materials; stress and strain; Mohr's circle for transformation of stress and strain; deflection under load; design of beams, shafts, columns and pressure vessels; failure theory and design.

Prerequisite(s): ENGG*1210, ENGG*1500, PHYS*1130

ENGG*2230 Fluid Mechanics W (3-2) [0.50]

Analysis of steady ideal and viscous fluid flow systems using the Continuity, Bernoulli and Momentum equations. Boundary layer theory is treated in terms of viscous and pressure drag, lift and its importance in heat and mass transfer. Dimensional analysis and dynamic similarity are studied to provide an understanding of flow systems analysis and modeling. Introduction to pipe flow and open channel flow.

Prerequisite(s): ENGG*1210, MATH*1210

ENGG*2340 Kinematics and Dynamics W (3-3) [0.50]

The course will cover kinematic and dynamic analysis including graphical and analytical methods for kinematic analysis of space, and mechanisms and elementary body motion in space, static and dynamic force analyses of mechanisms, gyroscopic forces, dynamics of reciprocating and rotating machinery, cam and gear mechanisms and specifications. Vibration analysis will deal with free and forced vibration of undamped lumped systems with multidegrees of freedom, analytical and numerical techniques of solution, viscous damping, vibrational isolation, vibration measurement and control.

Prerequisite(s): ENGG*2160

ENGG*2400 Engineering Systems Analysis F (3-1) [0.50]

Analytical description and modeling of engineering systems such as mechanical, electrical, thermal, hydraulic biological and environmental systems. Applications of multivariable calculus, linear algebra and differential equations to simulate and analyse such systems.

Prerequisite(s): ENGG*1210, ENGG*1500, MATH*1200, MATH*1210, PHYS*1130

Co-requisite(s): MATH*2270

ENGG*2410 Digital Systems Design Using Descriptive Languages F (3-3) [0.50]

Review of Boolean algebra and truth tables, Karnaugh maps. Design, synthesis and realization of combinational circuits. Design, synthesis and realization of sequential circuits. VHDL: structural modeling, data flow modeling, synchronous & asynchronous behavior descriptions, algorithmic modeling. Designing with PLDs. Digital design with SM charts. Designing with PGAs and complex programmable logical devices. Hardware testing and design for testability. Hierarchy in large designs. The course will primarily be concerned with the design of multi-input, multi-output digital controllers which provide the central control signals that orchestrate the collection of hardware devices (from SSI to VLSI) found in a digital system. An introduction to FPGA-based, as well as microprocessor-based digital systems design will be given. Design examples will include systems such as UART, microcontroller CPU, ALU and data acquisition system.

Prerequisite(s): CIS*1650 or CIS*1500, PHYS*1130

ENGG*2450 Electric Circuits W (3-2) [0.50]

This course explores the fundamentals of electric circuit analysis. Course topics include: lumped circuit abstraction; circuit elements and their characteristics; Ohm's and Kirchhoff's laws; resistive circuits; nodal and mesh analysis; linearity and superposition principles; fundamental circuit theorems; introduction to the ideal operational amplifier model; energy storage elements and dynamics of first and second order circuits; alternate-current circuits. VHD Ls: structural modeling, data flow modeling, synchronous & asynchronous behavior descriptions, algorithmic modeling. Designing with PLDs. Digital design with SM charts. Designing with PGAs and complex programmable logical devices. Hardware testing and design for testability. Hierarchy in large designs. The course will primarily be concerned with the design of multi-input, multi-output digital controllers which provide the central control signals that orchestrate the collection of hardware devices (from SSI to VLSI) found in a digital system. An introduction to FPGA-based, as well as microprocessor-based digital systems design will be given. Design examples will include systems such as UART, microcontroller CPU, ALU and data acquisition system.

Prerequisite(s): ENGG*2400, (PHYS*1010 or PHYS*1130)

ENGG*2550 Water Management W (3-0) [0.50]

The influence of fundamental engineering and hydrologic principles on the choices available for management of water on a watershed basis is demonstrated for representative techniques used in management for water supply, irrigation, flood control, drainage and water pollution control. Selected problems are studies to reveal the technical, environmental, legal, jurisdiction, political, economic and social aspects of water management decisions.

Prerequisite(s): CHEM*1040 or CHEM*1310, GEOG*2000

ENGG*2560 Environmental Engineering Systems W (3-2) [0.50]

Analysis techniques for natural and engineered systems including chemical, physical and biological processes. Mass balance analysis for steady state and unsteady state situations. Analysis under both equilibrium and non-equilibrium conditions. Reactor types including batch, plug-flow, CSTR. Noise pollution, control and prevention.

Prerequisite(s): CHEM*1050, MATH*2270

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Last Revision: Oct. 19, 2012
ENGG*2660 Biological Engineering Systems I W (3-1) [0.50]
This course deals with the mathematical description and identification of biological systems; through mass and energy balances; reactions in biological systems; biomedical, food, and bio-processing applications.
Prerequisite(s): ENGG*2400, MATH*2270, (1 of BIOL*1030, BIOL*1070, BIOL*1080, BIOL*1090, MICR*1020)

ENGG*3030 Energy Distribution F (3-2) [0.50]
The course deals with the design, modelling and optimization of the most common methods of energy distribution. Major topics to be discussed include grid systems and their interaction, feed into grid systems from intermittent power sources, pipeline transportation of gases and fluids, surface transportation on both land and sea. Students will be required to design a distribution system for a specific power source in a given geographic area.
Prerequisite(s): ENGG*2030, ENGG*2450, ENGG*3240, ENGG*3410

ENGG*3050 Embedded Reconfigurable Computing Systems W (3-2) [0.50]
This course introduces the students to the analysis, synthesis and design of embedded systems and implementing them using Field Programmable Gate Arrays. Topics include: review of digital design concepts; Programmable Logic Devices; Field Programmable Logic Devices; physical design automation (partitioning, placement and routing); Hardware Descriptive Languages; VHDL; Verilog; High Level Languages; System-C; Handle-C; Fixed Point and Floating Point Arithmetic; Hardware Accelerators; Reconfigurable Instruction Set Computers; Hardware Software Co-design techniques; Application of Field Programmable Logic in Embedded Systems.
Prerequisite(s): ENGG*3380, ENGG*3450

ENGG*3070 Integrated Manufacturing Systems W (3-2) [0.50]
Common production machines and manufacturing systems are dealt with, particularly automated systems, robotics, computer control and integration techniques, materials handling, inspection processes and process control. The course addresses societal and environmental issues related to manufacturing.
Prerequisite(s): ENGG*2120, ENGG*2450
Co-requisite(s): ENGG*3410

ENGG*3100 Engineering and Design III W (3-2) [0.75]
This course combines the knowledge gained in the advanced engineering and basic science courses with the design skills taught in ENGG*1100 and ENGG*2100 in solving open-ended problems. These problems are related to the student's major. Additional design tools are presented, including model simulation, sensitivity analysis, linear programming, knowledge-based systems and computer programming. Complementing these tools are discussions on writing and public speaking techniques, codes, safety issues, environmental assessment and professional management. These topics are taught with the consideration of available resources and cost.
Prerequisite(s): Registration in the B.Eng. program and completion of 6.00 credits of ENGG courses including ENGG*2100
Restriction(s): Students must have a minimum cumulative average of 60% or higher in ALL ENGG courses. Restriction waiver requests are handled by the Director, School of Engineering, or designate.

ENGG*3120 Computer Aided Design and Manufacturing F (3-2) [0.75]
The course presents the elements of solid modelling, creation of parts of increasing complexity and the assembly of parts to form a final design, along with mechanism simulation. The operation and programming of CNC machines is covered.
Prerequisite(s): ENGG*2100, ENGG*3280

ENGG*3150 Engineering Biomechanics W (3-2) [0.50]
Basic concepts of biological material structure, properties, adaptation and remodeling; viscoelasticity in biological materials and techniques for modeling viscoelastic material behaviour; 2-dimensional and 3-dimensional joint kinematic analysis techniques; muscle mechanics and optimization techniques; current techniques in laboratory instrumentation and biomedical applications.
Prerequisite(s): ENGG*2160
Restriction(s): ENGG*2150

ENGG*3160 Biological Engineering Systems II F (3-2) [0.50]
Mass transfer in biological systems: concepts; gas-liquid mass transfer; membrane transport processes; and heterogeneous reactions. Applications may include fermenter aeration, tissue perfusion, mass transfer limitations in biofilms, microbial flocs and solid tumours, protein recovery and drug delivery.
Prerequisite(s): ENGG*2230, ENGG*2660

ENGG*3170 Biomaterials F (3-2) [0.50]
Physical properties of natural and synthetic (e.g. stainless steel, polymers) materials used in biological engineering applications. Topics will include microstructure and mechanical properties of typical biomaterials, quantification of advanced material properties and behaviours, fabrication, compatibility, biodegradation and mechanical failure. Typical applications will include processing of biomaterials as well as equipment and implant design.
Prerequisite(s): ENGG*2120

ENGG*3180 Air Quality F (3-2) [0.50]
Prerequisite(s): ENGG*2230, (ENGG*2560 or ENGG*2660)
Co-requisite(s): ENGG*3260

ENGG*3190 Logic Synthesis W (3-2) [0.50]
This course presents automatic logic synthesis techniques for computer-aided design (CAD) of very large-scale integrated (VLSI) circuits and systems. Topics covered are: two-level Boolean network optimization, multi-level Boolean network optimization, technology mapping for library-based designs and field-programmable gate-array (FPGA) designs, and state-assignment and re-timing for sequential circuits. The course will also cover various representations of Boolean functions such as binary decision diagrams (BDDs) and discuss their applications to logic synthesis.
Prerequisite(s): ENGG*2410

ENGG*3210 Communication Systems W (3-2) [0.50]
This course is an introduction to the fundamentals of data communication and computer networking. The data communication basics will cover signal transmission and signal encoding techniques such as: multiplexing techniques, signaling, encoding and decoding, error detection and recovery, sliding window techniques. Computer networking basics will cover: communication network components and topologies, multiple access design issues and performance analysis, switching, routing, services and applications, and security. The course will also cover the mathematical tools (Fourier transform, etc.) used in signal analysis.
Prerequisite(s): MATH*2130, STAT*2120

ENGG*3240 Engineering Economics F (3-0) [0.50]
Principles of project evaluation; analysis of capital and operating costs of engineering alternatives, benefit-cost ratio; break-even studies, evaluations recognizing risk, replacement and retirement of assets; tax considerations, influence of sources of funds.
Prerequisite(s): MATH*1210
Restriction(s): Registration in the Engineering program.

ENGG*3260 Thermodynamics F (3-2) [0.50]
This course covers macroscopic thermodynamics and its applications to engineering practice. Topics include properties of pure substances and equilibrium, the First Law of thermodynamics (energy transfer and energy balance in closed and flow systems), the Second Law of thermodynamics and its applications (entropy analysis of closed and flow systems, quantification of irreversibilities and inefficiencies, quality of energy, etc.), thermodynamic cycles and energy.
Prerequisite(s): CHEM*1040, ENGG*2230, ENGG*2400, MATH*2270

ENGG*3280 Machine Design F (3-5) [0.75]
The course focuses on the important elements of machine design including the influence of design on the manufacturing process chosen to produce a given part. The various fabrication processes used for metals, ceramics, polymers and composites are studied. Failure mechanisms are dealt with along with safety factors and reliability. The design of important machine components is studied, and common failure mechanisms of these components are related to design. A significant part of the course deals with life cycle analysis of manufactured products.
Prerequisite(s): ENGG*2120, ENGG*2230, ENGG*2340, ENGG*2400, ENGG*2450

ENGG*3340 Geographic Information Systems in Environmental Engineering F (3-0) [0.50]
Geographical information system structure and functions. Data structuring and application program development. Data input, display and analysis. Applications in environmental engineering and natural resource development/management. Students will be able to use a GIS software package to build geographical information systems.
Prerequisite(s): (CIS*1500 or CIS*1600), (1 of MATH*1000, MATH*1080, MATH*1200)
ENGG*3370 Applied Fluids and Thermodynamics W (3-2) [0.50]
This course builds on the fundamentals of fluid dynamics and thermodynamics introduced in previous courses by looking at relevant applications. Topics to be covered include: heating, ventilation and air conditioning (HVAC); heat engine systems such as the Carnot cycle for refrigeration and heat pumps and the Rankine cycle for vapour power systems; compressible flow, turbomachinery such as pumps, turbines, and propellers; and an introduction to combustion.
Prerequisite(s): ENGG*2230, ENGG*3260
Co-requisite(s): ENGG*3430

ENGG*3380 Computer Organization and Design W (3-2) [0.50]
This course contains a detailed examination of modern computer organization and techniques for microprocessor architecture design. Topics include - CPU design; instruction set design, addressing modes, operands; data flow design; internal bus structure, data flow signals, register file; control sequence design; hardwired control; decoding; microprogramming; architecture classes; CISC, RISC, and DSP. Memory organization, performance. Students must complete a term project that includes design, implementation, and demonstration of a CPU using a hardware descriptive language like VHDL.
Prerequisite(s): ENGG*2410

ENGG*3390 Signal Processing F (3-2) [0.50]
This course will establish the fundamental analysis and design techniques for signal processing systems. Topics covered include: definition and properties of linear time-invariant systems, impulse response and convolution; continuous-time L-place transform, Fourier series, Fourier transform; discrete-time Fourier transform, discrete-time Fourier series, fast Fourier transform, Z transform; complex frequency response; filter analysis and design for both continuous and discrete time systems. Students will be able to design continuous-time filters and both design and implement discrete-time digital filters using computer-based tools.
Prerequisite(s): ENGG*2400

ENGG*3410 Systems and Control Theory W (3-2) [0.50]
Modeling, performance analysis and control with potential application to engineering, physical and biological systems. Topics include modeling in time, Laplace and frequency domains. Performance and stability by methods of Hurwitz, Routh, Bode, and Nyquist. Control by ON/OFF and PID Controllers.
Prerequisite(s): ENGG*2400, MATH*2270
Co-requisite(s): ENGG*2450

ENGG*3430 Heat and Mass Transfer W (3-1) [0.50]
Analysis of steady and transient thermal systems involving heat transfer by conduction, convection and radiation and of mass transfer by molecular diffusion and convection. Other topics include the thermal analysis of heat exchangers and heat transfer systems involving a change of state.
Prerequisite(s): ENGG*2230, ENGG*3260, MATH*2270

ENGG*3450 Electrical Devices F (3-2) [0.50]
Semiconductors materials, Silicon, Germanium and other semi-conductors' material, Doping and effects of extrinsic material introduction, conduction in metals and semi-conductors, electrical and thermal characteristics of diodes and transistors; principles of modern electronic devices and their applications in circuits; diodes; bipolar and field effect transistors; circuit integration; operational amplifiers; logic gates.
Prerequisite(s): ENGG*2450

ENGG*3470 Mass Transfer Operations W (3-2) [0.50]
Prerequisite(s): ENGG*2230, ENGG*3260, MATH*2270
Co-requisite(s): ENGG*3430

ENGG*3490 Introduction to Mechatronic Systems Design W (3-2) [0.75]
This course covers the design of mechatronic systems, which are synergistic, combinations of components and controls drawn from mechanical engineering, electronics, control engineering, and computer science. The course emphasizes the integration of these areas through the design process employing the two skills of (1) modeling, analysis, control design, and computer simulation of dynamic systems, and (2) experimental validation of models, analysis and the understanding of the key issues of hardware implementation. The two skills are developed though assignments emphasizing analytical analysis with complementary laboratory exercises. The material covered includes mechatronic system design; a review of kinematics, electronics, modeling, simulation, signals and control; control architectures; sensors including vision; and actuators.
Prerequisite(s): ENGG*3450
Co-requisite(s): ENGG*3410
Restriction(s): ENGG*3400

ENGG*3510 Electromechanical Devices F (3-3) [0.50]
The aim of this course is to develop an understanding of the electromechanical principles and their applications as electromechanical devices used in engineering. The course covers magnetic fields of currents and coils; magnetic materials; magnetic circuits, inductance, electrical and magnetic fields (EMF), inductance, transformers magnetic forces, permanent magnets and electromagnets. The course examines the principles of variable-reluctance devices, stepper motors, moving-coil devices, direct current (DC) and alternating current (AC) motors.
Prerequisite(s): ENGG*2160, ENGG*2450, PHYS*1010

ENGG*3570 MEMS and Microfabrication F (3-2) [0.50]
This course presents a broad survey of micro-electro-mechanical systems (MEMS) and microfabrication technologies. It covers silicon and non-silicon microfabrication techniques for microsensors, microactuators, and nanotechnology; It introduces CAD tools and practical issues in designing devices such as microactuators, grippers, accelerometers, and pressure sensors. It discusses limitations and challenges in design and fabrication of MEMS and enables the application of general micromachining principles to developing novel devices.
Prerequisite(s): ENGG*2450, PHYS*1010

ENGG*3590 Water Quality F (3-3) [0.50]
This course builds on the student's experience in chemistry, biology, physics and fluid mechanics, and provides an engineering perspective on: (i) standard methods of water quality analysis for physical, chemical and biological characteristics of water; (ii) significance and interpretation of analytical results, (iii) modeling of water quality in natural systems and (iv) introduction to engineered water and wastewater treatment systems.
Prerequisite(s): ENGG*2230, ENGG*2560, (1 of BIOL*1040, BIOL*1090, MICR*1020, MICR*2420), STAT*2120

ENGG*3640 Microcomputer Interfacing F (3-3) [0.50]
This course focuses on the subject of interfacing microcomputers to external equipment. Topics include peripheral devices, hardware interfaces, device driver software and real time programming. Advanced programming: debugging of embedded systems, data structures and subroutine calls, high-level system programming. Interrupts and resets, real time events, signal generation and timing measurements. Synchronous and asynchronous serial communication. Parallel I/O ports and synchronization techniques. I/O interfacing, microcomputer busses, memory interfacing and direct memory access (DMA). Data acquisition topics include signal conditioning analog to digital conversion and digital signal processing.
Prerequisite(s): ENGG*2410, ENGG*2450
Restriction(s): ENGG*4640

ENGG*3650 Hydrology F (3-1) [0.50]
Quantitative study of natural water circulation systems with emphasis on basic physical principles and interrelationships among major processes; characteristics of mass and energy; inputs to and output from watersheds; factors governing precipitation occurrence, evaporation rates, soil-water storage changes, groundwater recharge and discharge, run-off generation; methods of streamflow analysis; mathematical modeling.
Prerequisite(s): (ENGG*2230 or MET*2030 ), (MATH*1210 or MATH*2080), (STAT*2120 or STAT*2040), and competency in computing

ENGG*3670 Soil Mechanics F (3-2) [0.50]
Relations of soil physical and chemical properties to strength; soil water systems and interactive forces. Visco-elastic property and pressure-volume relationships of soil systems. Stress-strain characteristics of soil under dynamic loads. Application of engineering problems. Laboratory and field investigation methods.
Prerequisite(s): ENGG*2120, ENGG*2230

ENGG*3700 Optimization for Engineers F (3-2) [0.50]
This course serves as an introduction to combinators and optimization and discusses classical direct search-for-optimum methods for constrained optimization, including linear and quadratic programming, and others. Topics to be covered include: complexity theory, linear integer programming technique, constrained/unconstrained optimization and heuristic search techniques such as tabu search, genetic algorithms, particle swarm optimization, simulated annealing and GRASP.
Prerequisite(s): CIS*1500, MATH*2130, MATH*2270

ENGG*3830 Bio-Process Engineering F (3-1) [0.50]
Application of engineering principles to the processing of biological products in the biological and food industry. Analysis and design of unit processes such as sedimentation, centrifugation, filtration, milling and mixing involving rheology and non-Newtonian fluid dynamics of biological materials. Analysis of heat and mass balances for drying evaporation, distillation and extraction.
Prerequisite(s): ENGG*2230, ENGG*2660
Co-requisite(s): ENGG*3260
ENGG*4030 Manufacturing System Design W (3-3) [0.75]
Students work in groups to design a manufacturing system to produce a specific product. Choices must be made about the materials to be used, the methods to manufacture each part of the product and the final assembly and/or packaging process. Attention is paid to economics and efficiency of the overall manufacturing system.
Prerequisite(s): ENGG*3070, ENGG*3120, ENGG*3510, ENGG*4460
Co-requisite(s): ENGG*4050, ENGG*4280

ENGG*4040 Medical Imaging Modalities F (3-2) [0.50]
The course will cover the basic knowledge of medical imaging systems, how they operate and to what uses they can be applied. Systems covered will include x-ray radiography, computed tomography, magnetic resonance imaging, positron emission tomography, gama cameras, and ultrasound imaging. Emphasis will be on the underlying physics and computation, highlighting factors affecting image quality, patient safety, and clinical use.
(First offering - Fall 2013)
Prerequisite(s): MATH*1210, PHYS*1130
Restriction(s): Instructor consent required.

ENGG*4050 Quality Control W (3-2) [0.50]
The basic techniques and regulations surrounding quality control in a generic manufacturing environment are covered. The topics covered include the statistics of sampling, sampling rates and measurements. Destructive and non destructive methodologies of product examination are discussed. The student is exposed to relevant ISO and related regulations, and through case studies is given the opportunity to see how these regulations are implemented in local industries.
Prerequisite(s): STAT*2120

ENGG*4060 Biomedical Signals Processing W (3-2) [0.50]
This course will cover the generation of biomedical signals, detection and measurement, and processing. The physiology of electrical signal generation will cover ionic transport in cellular membranes and propagation of electrical signals in cells and tissues. The range of biomedical signals covered includes such common signals as the electromyogram (EMG), the electrocardiogram (ECG), the electroencephalogram (EEG). Detection and measurement will cover electrode technology, instrumentation amplifiers and safety concerns. Processing includes filtering, frequency content analysis, removal of artifacts, signal correlation, and event detection (First offering - Winter 2014)
Prerequisite(s): ENGG*3390
Restriction(s): Instructor consent required.

ENGG*4080 Micro and Nano-Scale Electronics F (3-2) [0.50]
The purpose of this course is to describe the operating principles of analog integrated micro and nano electronic circuits and to teach how to design and use such circuits systems. Course topics include: device and circuit fabrication in silicon and non-silicon based technologies; operation and layout of active and passive elements; analog and switched-capacitor filters; analog-to-digital and digital-to-analog converters; amplifiers; oscillators and circuits for radio-frequency and optical communications; readout channels for integrated sensors, and analog integrated circuits for mechatronics and bioengineering. The main emphasis is on device models, circuit operation, and design techniques.
Prerequisite(s): ENGG*3450

ENGG*4090 Food and Beverage Engineering W (3-3) [0.75]
Students work in groups to design a system for manufacturing a specific food or beverage product. Choices are made about the specific processes to be used, the final packaging and marketing of the product. Attention is paid to the economics and efficiency of the overall production process.
Prerequisite(s): ENGG*3070, ENGG*3510, MIRC*1020
Co-requisite(s): ENGG*2660, ENGG*4050, ENGG*4280

ENGG*4110 Biological Engineering Design IV F,W (3-5) [1.00]
This is the capstone design course for the Biological Engineering program. Teams normally of 3-4 students apply engineering analysis and design principles to a problem involving water resources or wastewater engineering. A completely specified solution at the level of preliminary or final design is required, including assessment of socio-economic and environmental impact. This is a small group design that requires reports and a poster presentation at a professional standard. Ethics and legal case studies relevant to professional engineering practice are presented during the lectures.
Prerequisite(s): All 1000 and 2000 level core credits, ENGG*3100.
Restriction(s): Registration in semester 8 (last semester) of the B.Eng. program and in a max. of 3.25 credits registration. Students must have a minimum cumulative average of 60% or higher in ALL ENGG courses. Instructor consent required. Restriction waiver requests are handled by the Director, School of Engineering, or designate.

ENGG*4120 Engineering Systems and Computing Design IV F,W (3-5) [1.00]
This is the capstone design course for the Engineering Systems and Computing program. Teams normally of 3-4 students apply engineering analysis and design principles to a problem involving control system, computer hardware or computer software technology. A completely specified solution at the level of preliminary or final design is required, including assessment of socio-economic and environmental impact. This is a small group design that requires reports and a poster presentation to a professional standard. Ethics and legal case studies relevant to professional engineering practice are presented during the lectures.
Prerequisite(s): All 1000 and 2000 level core credits, ENGG*3100.
Restriction(s): Registration in semester 8 (last semester) of the B.Eng. program and in a max. of 3.25 credits registration. Students must have a minimum cumulative average of 60% or higher in ALL ENGG courses. Instructor consent required. Restriction waiver requests are handled by the Director, School of Engineering, or designate.

ENGG*4130 Environmental Engineering Design IV F,W (3-5) [1.00]
This is the capstone design course for the Environmental Engineering program. Teams normally of 3-4 students apply engineering analysis and design principles to an environmental engineering problem. A completely specified solution at the level of preliminary or final design is required, including assessment of socio-economic and environmental impact. This is a small group design that requires reports and a poster presentation to a professional standard. Ethics and legal case studies relevant to professional engineering practice are presented during the lectures.
Prerequisite(s): All 1000 and 2000 level core credits, ENGG*3100.
Restriction(s): Registration in semester 8 (last semester) of the B.Eng. program and in a max. of 3.25 credits registration. Students must have a minimum cumulative average of 60% or higher in ALL ENGG courses. Instructor consent required. Restriction waiver requests are handled by the Director, School of Engineering, or designate.

ENGG*4150 Water Resources Engineering Design IV F,W (3-5) [1.00]
This is the capstone design course for the Water Resources Engineering program. Teams normally of 3-4 students apply engineering analysis and design principles to a problem involving water resources or wastewater engineering. A completely specified solution at the level of preliminary or final design is required, including assessment of socio-economic and environmental impact. This is a small group design that requires reports and a poster presentation to a professional standard. Ethics and legal case studies relevant to professional engineering practice are presented during the lectures.
Prerequisite(s): All 1000 and 2000 level core credits, ENGG*3100.
Restriction(s): Registration in semester 8 (last semester) of the B.Eng. program and in a max. of 3.25 credits registration. Students must have a minimum cumulative average of 60% or higher in ALL ENGG courses. Instructor consent required. Restriction waiver requests are handled by the Director, School of Engineering, or designate.

ENGG*4160 Mechanical Engineering Design IV F,W (3-5) [1.00]
This is the capstone design course for the Mechanical Engineering program. Teams normally of 3-4 students apply engineering analysis and design principles to a mechanical engineering problem. A completely specified solution at the level of preliminary or final design is required, including assessment of socio-economic and environmental impact. This is a small group design that requires reports and a poster presentation to a professional standard. Ethics and legal case studies relevant to professional engineering practice are presented during the lectures.
Prerequisite(s): All 1000 and 2000 level core credits, ENGG*3100.
Restriction(s): Registration in semester 8 (last semester) of the B.Eng. program and in a max. of 3.25 credits registration. Students must have a minimum cumulative average of 60% or higher in ALL ENGG courses. Instructor consent required. Restriction waiver requests are handled by the Director, School of Engineering, or designate.

ENGG*4170 Computer Engineering Design IV F,W (3-5) [1.00]
This is the capstone design course for the Computer Engineering program. Teams normally of 3-4 students apply engineering analysis and design principles to a computer engineering problem. A completely specified solution at the level of preliminary or final design is required, including assessment of socio-economic and environmental impact. This is a small group design that requires reports and a poster presentation to a professional standard. Ethics and legal case studies relevant to professional engineering practice are presented during the lectures. (First offering - Winter 2014)
Prerequisite(s): All 1000 and 2000 level core courses and ENGG*3100
Restriction(s): Registration in semester 8 (last semester) of the B.Eng. program with a maximum 3.25 credits registration. Students must have a minimum cumulative average of 60% or higher in n ALL ENGG courses. Instructor consent required. Restriction waiver requests are handled by the Director, School of Engineering, or designate.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
<th>Restriction(s)</th>
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<tbody>
<tr>
<td>ENGG*4180</td>
<td>Biomedical Engineering Design IV F,W (3-5) [1.00]</td>
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<tr>
<td>ENGG*4220</td>
<td>Interdisciplinary Mechanical Engineering Design W (3-3) [0.75]</td>
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<tr>
<td>ENGG*4250</td>
<td>Watershed Systems Design W (3-2) [0.75]</td>
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<td>ENGG*4260</td>
<td>Water and Wastewater Treatment Design W (3-2) [0.75]</td>
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<tr>
<td>ENGG*4280</td>
<td>Digital Process Control Design W (3-2) [0.75]</td>
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<tr>
<td>ENGG*4300</td>
<td>Food Processing Engineering Design F (3-2) [0.75]</td>
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<tr>
<td>ENGG*4310</td>
<td>Wind and Solar Energy Design W (3-3) [0.75]</td>
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<td>ENGG*4330</td>
<td>Air Pollution Control F (3-2) [0.75]</td>
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<td>ENGG*4340</td>
<td>Solid and Hazardous Waste Management F (3-2) [0.50]</td>
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<td>ENGG*4350</td>
<td>Energy Economics W (3-2) [0.50]</td>
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<td>ENGG*4360</td>
<td>Soil-Water Conservation Systems Design F (3-2) [0.75]</td>
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<td>ENGG*4370</td>
<td>Urban Water Systems Design F (3-2) [0.75]</td>
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<td>ENGG*4380</td>
<td>Bioreactor Design W (3-2) [0.75]</td>
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<td>ENGG*4390</td>
<td>Bio-instrumentation Design F (3-2) [0.75]</td>
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<td>ENGG*4400</td>
<td>Biomechanical Engineering Design F (3-2) [0.75]</td>
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<td>ENGG*4420</td>
<td>Real-time Systems Design F (3-3) [0.75]</td>
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</tbody>
</table>

*Prerequisite(s):* All 1000 and 2000 level core courses and ENGG*3100

*Restriction(s):* Registration in semester 8 (last semester) of the B.Eng. program with a maximum 3.25 credits registration. Students must have a minimum cumulative average of 60% or higher in all ENGG courses.

*Instructor consent required. Restriction waiver requests are handled by the Director, School of Engineering, or designate.*
ENGG*4430 Neuro-Fuzzy and Soft Computing Systems W (3-0) [0.50]
Introduction to Fuzzy systems; Fuzzy Sets; Fuzzy Rules and Fuzzy Reasoning; Fuzzy Inference Systems; Fuzzy Control; Introduction to Neural and Automata Networks; Neural Network Paradigms; Supervised Learning Neural Networks, Learning from Reinforcement, Unsupervised Learning and Other Neural Networks; Neurocontrol, System Identification; Controller Training, Robust Neurocontrol; Adaptive Neuro-Fuzzy Inference Systems, Coactive Neuro-Fuzzy Modeling; Reinforcement Learning Control, Gradient-Free Optimization, Feedback Linearization and Sliding Control; Applications; Quality Assurance, Decision Aid Systems, Automatic Character Recognition, Inverse Kinematics Problems, Automobile MPG (Miles Per Gallon) Prediction, System Identification, Channel Equalization, Adaptive Noise Cancellation, Process Control.
Prerequisite(s): ENGG*3410
Co-requisite(s): ENGG*4280

ENGG*4440 Computational Fluid Dynamics W (3-2) [0.50]
Computational methods for fluid mechanics form the core of the course. The concepts of modelling are covered including numerical analysis, the governing equations for fluid problems and finite discretization methods. Mathematical models for turbulence are presented and the student is exposed to the use of commercial software for the solution of complex problems in fluid dynamics.
Prerequisite(s): ENGG*2230, ENGG*3700

ENGG*4450 Large-Scale Software Architecture Engineering F (3-2) [0.50]
This course introduces the students to the analysis, synthesis and design of large-scale software systems at the architectural level. This is in contrast to the algorithmic and data structure viewpoint of most software systems. Large-scale software systems are complex, execute on many processors, under different operating systems, use a particular or many language(s) of implementation, and typically rely on system layers, network connectivity, messaging and data management and hardware interfacing. The material covered includes architectural styles, case studies, architectural design techniques, formal models, specifications and architectural design tools. The laboratory sessions will expose the students to analyzing and redesigning an existing large-scale software system.
Prerequisite(s): (CIS*2420 or CIS*2520), ENGG*2100

ENGG*4460 Robotic Systems F (3-3) [0.50]
This course covers robot technology fundamentals, mathematical representation of kinematics, planning and execution of robot trajectories, introduction to robot languages, programming of robotic systems, different application domains for robots (e.g. assembly, manufacturing, medical, services, etc.), and robot sensors. The goal of this course is to provide students with a comprehensive background, approaches and skills to apply robotics technology to real-world engineering applications and problems.
Prerequisite(s): ENGG*1500, ENGG*2400

ENGG*4470 Finite Element Analysis F (3-2) [0.50]
The theory of finite element analysis is presented including element derivation and solution procedures. Students use a finite element package to solve problems based on static and dynamic applications in mechanical systems. Examples are chosen from classical machines as well as biological systems.
Prerequisite(s): ENGG*2340, MATH*2130, MATH*2270

ENGG*4480 Advanced Mechatronic Systems Design W (3-3) [0.75]
The aim of this course is to build on the ideas and concepts introduced in ENGG*3490. The course covers signal conditioning, system calibration, system models, dynamic models, large scale system networking, microprocessors, programmable logic controllers, communication systems and fault finding.
Prerequisite(s): ENGG*3490, ENGG*3640, ENGG*4460

ENGG*4510 Assessment & Management of Risk W (3-1) [0.50]
This course will develop the bases by which risk to human health and the environment can be assessed. Issues of hazardous waste cleanups, permitting of water and air discharges, food safety, flood protection, as examples, are addressed. The course also examines how decisions are made to manage the risks to acceptable levels.
Prerequisite(s): STAT*2040 or STAT*2120

ENGG*4540 Advanced Computer Architecture W (3-2) [0.50]
This course covers topics such as: basics of pipeline structure, advanced pipelining and instruction level parallelism, multiprocessor and thread-level parallelism, memory-hierarchy design (main memory, virtual memory, caches), storage systems, interconnection networks, multiprocessor architectures (centralized and distributed). Advanced topics related to new emerging computer architectures will also be presented. The emphasis in each topic is on fundamental limitations and the trade-offs involved in designing computer systems, including memory and processing bandwidth, network bandwidth and latency, synchronization, and storage system bandwidth and latency.
Prerequisite(s): ENGG*3210, ENGG*3380

ENGG*4550 VLSI Digital Design W (3-2) [0.50]
This course introduces the students to the analysis, synthesis and design of Very Large Scale integration (VLSI) digital circuits and implementing them in silicon. The topics of this course are presented at three levels of design abstraction. At device level: MOS diode; MOS (FET) transistor; interconnect wire. At circuit level: CMOS inverter; static CMOS gates (NAND, NOR); dynamic gates (NAND, NOR); static latches and registers; pipelining principles and circuit styles; BICMOS logic circuits. At system level: implementation strategies for digital ICs; interconnect at system level; timing issues in digital circuits (clock structures); the adder, the multiplier; the shifter; memory design and array structure; low power design circuits and architectures.
Prerequisite(s): ENGG*2410, ENGG*2450, ENGG*3450

ENGG*4550 Embedded System Design W (3-3) [0.75]
This course introduces the basic principles of embedded system design. It utilizes advanced hardware/software abstractions to help design complex systems. Topics include: design of embedded CPUs; embedded architecture cores; system-on-chip designs and integration using processor cores and dedicated cores modules; embedded computing platforms; embedded programming design and analysis; processes and operating systems; networks for embedded systems; distributed embedded architectures; design examples that target robotics, automobile, and communication systems.
Prerequisite(s): ENGG*4550
Co-requisite(s): ENGG*3050

ENGG*4650 Integrated Sensors and Photonic Devices F (3-2) [0.50]
This course presents an overview and the principles of operation of integrated solid-state sensors and sensing systems. It studies the microstructures for the measurement of visible and infrared radiation, pressure, acceleration, temperature, gas purity, and ion concentrations. Topics include transduction mechanisms, design parameters, fabrication technologies, and applications. The course will also explore the theoretical and practical aspects of current photonic devices and applications based on linear and nonlinear optics. (First offering - Fall 2013)
Prerequisite(s): CHEM*1040, ENGG*2450, PHYS*1010

ENGG*4660 Medical Image Processing W (3-2) [0.50]
This course covers the fundamentals of medical imaging from both the processing of digital images and the physics of image formation. Image processing topics covered include: fundamentals of resolution and quantization; linear systems as applied to multi-dimensional continuous and discrete systems including the relationship between the point spread functions and modulation transfer function; point operations such as contrast enhancement, histogram equalization, and H and D curves, geometric operations for distortion correction, including interpolation methods; linear filtering in both the spatial and spatial-frequency domains; and image restoration and inverse filtering. The physics of the following imaging modalities with emphasis on the parameters which effect image quality will be covered: x-ray radiology, MRI, ultrasound, and nuclear medicine.
Prerequisite(s): ENGG*3390

ENGG*4680 Multidisciplinary Engineering Design W (2-4) [0.75]
This is a general design course for students registered in the B. Eng. major in Biomedical Engineering and who do not wish to develop a strong specialization in one of the specific areas of the program. Students work in groups to develop a general Biomedical engineering design. Special attention is paid to the sustainability of the design, its economic feasibility and overall efficiency.
Prerequisite(s): ENGG*3100

ENGG*4720 Physical Design Automation W (3-2) [0.50]
This course presents the applications of a number of important optimization techniques (such as linear programming, integer programming, simulated annealing, and genetic algorithms) to various design-automation problems, including: logic partitioning, floorplanning, placement, global routing, detailed routing, compaction, and performance-driven layout.
Prerequisite(s): CIS*2500, CIS*3490, ENGG*3700
English
School of English and Theatre Studies

1. ENGL*1080 and ENGL*2080 provide a strong foundation for English studies at the University level and are required courses for students intending to major or minor in English. These linked courses expose students not only to a broad range of texts from different countries and historical periods but also to some of the exciting developments in the discipline.

2. Honours major students are required to take the seminar courses ENGL*2120, ENGL*2130, ENGL*3940, ENGL*3960, preferably in their 3rd, 4th, 5th and 6th semesters. ENGL*1080 is a pre-requisite to ENGL*2120 and ENGL*2130; ENGL*2080 is a pre-requisite to ENGL*3940 and ENGL*3960.

3. Honours major students are required to take two 4000-level seminars, preferably in their 7th and 8th semesters. The prerequisites for the 4000-level seminars are ENGL*2080 plus one of ENGL*2120, ENGL*2130 plus one of ENGL*3940, ENGL*3960.

4. Honours minor students are required to take the seminar course ENGL*2120 and one of ENGL*2130, ENGL*3940, ENGL*3960, preferably in their 3rd to 6th semester.

5. Many English lecture courses are offered on alternate years only and many English seminars have variable content. For more information, students should consult the School's home page at http://www.arts.uoguelph.ca/sets/.

6. Many English lecture courses are reading-intensive while seminar courses are writing and presentation-intensive. Honours major students are advised to take two lectures and one seminar per semester beginning in their 3rd semester.

7. WRITING- AND PRESENTATION-INTENSIVE: Seminars emphasize written and oral work to help students develop the critical reading and writing skills essential to their learning throughout the curriculum.

8. READING-INTENSIVE: Lectures emphasize breadth of reading, contexts, and comparisons, to help students develop the knowledge base essential to their understanding of the field. In order to allow essay-writing to be concentrated in seminars, assignments in lecture courses will not predominantly take the traditional essay form but a range of other formats.

ENGL*1080 Literatures in English I: Reading the Past F,W (3-0) [0.50]
This course is focused on the disciplinary skill of close reading and is intended for students planning to specialize in the study of English Literature. Through a series of case studies, the course introduces students to a range of historical and national writings in prose, poetry, and drama, and to some of the key terms and concepts in contemporary literary studies. Lectures and discussions address selected works from the Middle Ages onwards, the periods in which these works were produced, and some of the ways in which these texts have been or could be interpreted. ENGL*1080 and its companion course, ENGL*2080, are required for a major or minor in English. Students are encouraged to enrol in ENGL*2080 in the semester after they have completed ENGL*1080. Reading- and writing-intensive course.
Equate(s): ENGL*1060
Restriction(s): Registration in the English major, minor or area of concentration, or in semesters one or two of the BA or BAS program.

ENGL*1200 Reading the Contemporary World F,W (3-0) [0.50]
This course, which is designed primarily for those not planning a specialization in English, introduces students to literary texts and persuasive forms of writing, bringing to the fore some of the links between language and contemporary social and political issues. Course materials will represent diversity in terms of national origins, gender, race, and class. The course emphasizes the use of figurative language as well as the development of students' critical reading and writing skills. Students planning to major or minor or pursue an area of concentration in English must take ENGL*1080 and ENGL*2080, but may also take ENGL*1200 and count it as an elective. (Also offered in Distance Education format.)

ENGL*1410 Major Writers U (3-0) [0.50]
This course, which is designed primarily for those not planning a specialization in English, offers an introduction to the study of literature through a chronological consideration of works by selected major authors from the Middle Ages to the present century, in relation to their social, intellectual and literary backgrounds. The course emphasizes the use of figurative language as well as the development of students critical reading and writing skills. Students planning to major or minor or pursue an area of concentration in English must take ENGL*1080 and ENGL*2080, but may also take ENGL*1410.

ENGL*2040 Latina/o Literature and Cultural Production: Intro F (3-0) [0.50]
This survey course introduces students to the terms, methodologies, and debates that form the interdisciplinary critical practice of Latina/o Studies. The course takes a pan-Latina/o approach to the study of English-language and cultural production by various Latinas/os primarily in the U.S. Because different Latina/o groups have been concentrated in particular U.S. regions and cities, the approach allows students to study how Latina/o literature and art have shaped the politics and culture of different regions and cities. Reading-intensive course. (Offered in odd-numbered years.)
Prerequisite(s): 1 of THST*1040, ENGL*1080, ENGL*1200

ENGL*2080 Literatures in English II: Finding a Critical Voice F,W (3-0) [0.50]
This course revisits the historical, national, and genre sweep of ENGL*1080 by conducting a range of specific, more in-depth studies of particular works (including some of the texts examined in ENGL*1080) in their historical moments. Seminars help students to develop a range of critical approaches through oral presentations and essay-writing. Students are encouraged to enrol in ENGL*2080 in the semester after they have completed ENGL*1080.
Equate(s): ENGL*1080

ENGL*2120 Seminar: Critical Practices F,W (3-0) [0.50]
This course guides students through a range of critical approaches and explores their implications for readings of a limited number of literary texts. The seminar's main areas of concentration are: (1) close reading, centering on the way a particular poem, work of fiction, or play works in its details and overall structure; (2) critical approaches and methodologies; (3) critical writing and discussion. (Choices of approaches and texts will be determined by individual instructors.) Writing- and presentation-intensive course.
Prerequisite(s): ENGL*1080

ENGL*2190 Representation and Sexuality W (3-0) [0.50]
This variable-content course offers a historically grounded introduction to the critical study of sexuality and representation in literature and related media. The course may engage with a specific time-period or genre, or it may concentrate directly on the problem of theorizing sexual difference in relation to other literary and cultural forms. (Offered in odd-numbered years.)
Prerequisite(s): 1 of ENGL*1080, ENGL*1200, ENGL*1410, WMST*1000

ENGL*2200 Postcolonial Literatures F (3-0) [0.50]
This course introduces significant issues, perspectives, and voices within the study of the postcolonial literatures in English. The course may include literature from Africa, Australia, Canada, the Caribbean, India and the Pacific. Reading-intensive course.
Prerequisite(s): 1 of ENGL*1080, ENGL*1200, ENGL*1410

ENGL*2230 Popular Genres F (3-0) [0.50]
This variable-content course introduces students to the focused study of a selected popular genre of literature, film, or other related media. The course explores the emergence and development of the popular genre chosen for that semester's study, such as science fiction, detective fiction, romance, the western, film noir, or the fairy tale; diverse critical approaches to the genre; and some meanings of the term popular. Reading-intensive course. (Offered in even-numbered years.)
Prerequisite(s): 1 of ENGL*1080, ENGL*1200, ENGL*1410

ENGL*2250 North American Native Literatures W (3-0) [0.50]
This course explores selected issues, perspectives, and voices within the study of Native literatures and their contexts in North America. One purpose of the course is to raise questions about the meaning of the U.S. - Canadian border for Native writers. Reading-intensive course.
Prerequisite(s): 1 of ENGL*1080, ENGL*1200, ENGL*1410

ENGL*2640 Culture, Location, Identity: Minoritized Literatures in Canada and Beyond F (3-0) [0.50]
This course will open up debates around emergent issues, perspectives, and voices in the literatures of minoritized cultures particularly within the North American context. Questions about the meanings of various borders for understanding Canadian negotiations of identity, culture, and location will remain a consistent feature of this variable content course. Reading-intensive course. (Also offered in Distance Education format.)
Prerequisite(s): 1 of ENGL*1080, ENGL*1200, ENGL*1410

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<th>Course Code</th>
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<tr>
<td>ENGL<em>1080, ENGL</em>1200, ENGL*1410</td>
<td>1.00 credits in English.</td>
<td></td>
<td>This course serves as an introduction to the critical study of children's literature and culture. Focus on selected genres of, issues in, or theoretical approaches to literature for children, this variable-content course explores shifting (and often conflicting) conceptions of childhood, in general, and of children as readers and cultural consumers. Reading-intensive course.</td>
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<tr>
<td>ENGL*2880 Women in Literature W (3-0)</td>
<td>1.00 credits in English.</td>
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<td>This variable-content course will involve the study and discussion of poems, stories, novels and plays by or about women. Reading-intensive course.</td>
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<tr>
<td>ENGL*2920 Creative Writing: Fiction U (3-0)</td>
<td>1.00 credits in English.</td>
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<td>This course provides an introduction to creative writing through lectures on the craft of writing, analysis of significant pieces by 20th- and/or 21st-century writers, and practice in writing fiction. Students will learn to read literature from the perspective of a creative writer, and coursework will require a combination of creative writing and analysis. Where possible, the course will include interaction with practicing writers. This course will be offered annually in either Fall or Winter. Check with the School.</td>
</tr>
<tr>
<td>ENGL*2940 Creative Writing: Poetry U (3-0)</td>
<td>1.00 credits in English.</td>
<td></td>
<td>This course provides an introduction to creative writing through lectures on the craft of writing, analysis of significant pieces by 20th- and/or 21st-century writers, and practice in writing poetry. Students will learn to read literature from the perspective of a creative writer, and coursework will require a combination of creative writing and analysis. Where possible, the course will include interaction with practicing writers. This course will be offered annually in either Fall or Winter. Check with the School.</td>
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<td>ENGL*3040 U.S. Latina/o Literature U (3-0)</td>
<td>1.00 credits in English.</td>
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<td>This course focuses on an English-language literature of a particular Latina/o community (e.g. Chicana/o, Cuban Americans, Puerto Ricans) in the United States. Students will be introduced to theoretical approaches and a wide range of genres, including narrative fiction, autobiography, literary journalism, and poetry. Reading-intensive course. (Offered in even-numbered years.)</td>
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<tr>
<td>ENGL*3080 History of the English Language U (3-0)</td>
<td>1.00 credits in English.</td>
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<td>This course introduces the key historical developments of the English language and the primary tools for the study of language. Topics to be discussed may include: the origins and precursors to the English language; the phonology, lexicon, and grammar of English; the persistence of language change; the historical factors that affect language change; the origins and implications of language variety; the formation of prestige dialects, and the current state of the English language in Canada and the world. Reading-intensive course.</td>
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<tr>
<td>ENGL*3120 Shakespearean Receptions F,W (3-0)</td>
<td>1.00 credits in English or (THST<em>2010, THST</em>2120)</td>
<td>0.50</td>
<td>The course will examine a selection of Shakespeare's plays and poems in the light of contemporary reassessments of his place in the canon. For purposes of comparison, plays by contemporaries of Shakespeare may also be studied along with adaptations of Shakespeare chosen from a number of different historical contexts. Close readings of these texts will be organized around such topics as Shakespearean adaptations, constructions of gender and subjectivity, Shakespeare and canon-formation, Shakespeare and critical theory, the politics of Shakespearean interpretation, Shakespeare in contemporary media culture, and changing performance practices. Reading-intensive course. (Offered in odd-numbered years.)</td>
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<tr>
<td>ENGL*3170 Elizabethan Literary Culture: Chastity and Power W (3-0)</td>
<td>1.00 credits in English.</td>
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<td>This course examines the literary culture associated with Elizabeth I. Issues, including gender and sexuality, power, and religion, will be explored through a wide range of sixteenth- and early-seventeenth century poems (these will be chosen from such writers as Suckling, Wyatt, Suckling, Mary Stuart, the Sidneys, Spenser, Marlowe, Shakespeare, Raleigh, Annemilja Lamyer, Mary Wroth, Elizabeth I, Jonson, Donne, and Herbert). Reading-intensive course. (Offered in odd-numbered years.)</td>
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<tr>
<td>ENGL*3190 Poetics and Politics in Early Modern England F (3-0)</td>
<td>1.00 credits in English.</td>
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<td>This course examines the intimate connections between poetics and politics in Elizabethan, Jacobean, and Civil War and Commonwealth literature. The texts to be studied may include plays and poems, as well as essays, political, historical, and theological writings, and works of prose fiction. Close readings of these texts will focus on such issues as: the intersections of the historical and political in Elizabethan culture; the role of religion and politics in shaping literary texts; and the ways in which literature both reflects and influences political events. (Offered in odd-numbered years.)</td>
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<tr>
<td>ENGL*3220 Representing Britain: 18th- &amp; 19th-Century Literature F (3-0)</td>
<td>1.00 credits in English.</td>
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<td>This course explores selected topics in the interrelation of literature and politics from the late seventeenth to the nineteenth century in Britain. Areas of focus may include: the representation of civil war, constitutionalism and revolution; satire and society; writings emerging from sufferage reform and agitation; the colonization of Ireland, the construction of political subjectivity, political paranoia, conspiracy and sedition. Reading-intensive course. (Offered in odd-numbered years.)</td>
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<tr>
<td>ENGL*3260 Writing Gender &amp; Family: 18th- and 19th-Century Literature W (3-0)</td>
<td>1.00 credits in English.</td>
<td></td>
<td>This course provides an introduction to creative writing through lectures on the craft of writing, analysis of significant pieces by 20th- and/or 21st-century writers, and practice in writing poetry. Students will learn to read literature from the perspective of a creative writer, and coursework will require a combination of creative writing and analysis. Where possible, the course will include interaction with practicing writers. This course will be offered annually in either Fall or Winter. Check with the School.</td>
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<tr>
<td>ENGL*3280 Old English Literature U (3-0)</td>
<td>1.00 credits in English.</td>
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<td>This course will focus on the language, literature, and culture of Anglo-Saxon England (7th to 11th centuries). In addition to acquiring the basics of Old English and engaging in translation exercises with passages from Anglo-Saxon texts, students will read a selection of texts in modern English translation; these may include Beowulf, &quot;The Battle of Maldon&quot;, elegies such as &quot;The Seafarer&quot;, riddling poems and religious poems. (Offered in alternate years.)</td>
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<tr>
<td>ENGL*3300 Restoration to Romanticism: Forging the Nation F (3-0)</td>
<td>1.00 credits in English.</td>
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<td>Drawing upon a range of literary texts from a variety of genres, this course will explore the politics of language and style in a series of cultural debates that shaped British national character from the late seventeenth to the late eighteenth centuries. Selected topics may include: literary representations of religious establishment and dissent; the division of power; the question of minority cultures; revolution and reaction; the problem of economic stability. Reading-intensive course. (Offered in even-numbered years.)</td>
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<tr>
<td>ENGL*3320 Romanticism to Victorianism: Culture and Conformity F (3-0)</td>
<td>1.00 credits in English.</td>
<td></td>
<td>This course explores the key texts in various genres of British cultural debates of the late eighteenth to the late nineteenth century. Focal points may include: literary representations of family and society; science and narrative; Britain's &quot;others&quot;; class and conflict; protest and power; the construction of nation; European influences. Reading-intensive course. (Offered in odd-numbered years.)</td>
</tr>
<tr>
<td>ENGL*3340 British Imperial Culture F (3-0)</td>
<td>1.00 credits in English.</td>
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<td>This multi-genre course introduces students to the literature of British imperialism in the eighteenth and nineteenth centuries. The course will consider the changing relationship between nation, empire, and colony by examining literary representations of such topics as: orientalism; travel writing; the construction of race; the representation of trade; the popular literature of empire; children's literature; the question of the other. Reading-intensive course. (Offered in even-numbered years.)</td>
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| ENGL*3360   | Scottish Literary Cultures F (3-0) [0.50]                                   |        | This course explores selected issues and ideas within this national literature, from the sixteenth to the early twentieth centuries, but with a primary focus on literature of the eighteenth and nineteenth centuries. Special attention is given to issues relating to nationhood, identity, religion, colonialism, gender, and class in relation to selected examples from literary texts and folktales. Reading-intensive course. (Offered in even-numbered years.) (Also offered in Distance Education format.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3380   | Studies in the History of Literary Production W (3-0) [0.50]                |        | This course will examine a range of issues arising from the materiality of book production and circulation. Topics may include serialization; mass production and circulation; patronage; reviewing; circulating libraries; licensing; censorship; children's literature; periodicals; gift books; letters; and other aspects of publishing and the public sphere. Reading-intensive course. (Offered in odd-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3420   | 20th- & 21st-Century Drama W (3-0) [0.50]                                   |        | This course offers a selective study of 20th- and/or 21st-century play-scripts written in English. Students are advised to consult the web-descriptions for the particular focus of the course's offering. (Offered in even-numbered years.)  
Prerequisite(s): 1.00 credits in English or (THST*2010, THST*2120) |
| ENGL*3460   | Literature in London U (2-3) [0.50]                                        |        | A study of British literature in its social and historical context. Reading of particular works will be supplemented by visits to sites of literary interest, the use of special library and museum collections, and attendance at public lectures and performances. For London Semester students only.  
Prerequisite(s): Admission to the London Semester. |
| ENGL*3470   | Twentieth-Century British Literature I W (3-0) [0.50]                       |        | This multigenre course explores aesthetic and socio-cultural movements (including modernism) in British literature from the turn of the century to mid-century. Reading-intensive course. (Offered in odd-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3480   | Twentieth-Century British Literature II F (3-0) [0.50]                     |        | This multigenre course explores aesthetic and socio-cultural movements (including postmodernism) in British literature from mid-century to the present. Reading-intensive course. (Offered in odd-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3540   | Writing the United States W (3-0) [0.50]                                   |        | This multigenre course explores the relationship between literary production and political power from the emergence of U.S. culture through the long nineteenth century. Areas of focus may include national fantasy; the literatures of war, imperial expansion, captivity, and genocide; narratives of race and immigration; the cult of domesticity; and the rise of mass culture. Reading-intensive course. (Offered in even-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3550   | Modern United States Literatures W (3-0) [0.50]                           |        | This multigenre course explores powerful examples of modern United States literatures, from about the First World War to the present. The selection is wide, including both traditional and experimental forms; female and male writers from various ethnic and racial groups; and a range of cultural issues. Reading-intensive course. (Offered in odd-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3560   | Medieval Literature W (3-0) [0.50]                                         |        | This course will introduce students to a range of medieval texts written in English and other languages and will explore the contexts of their composition and transmission. The texts to be studied may include histories, lais, lyrics, sagas, saints' lives, romances, miracle stories, fabliaux, play cycles, and others. Reading-intensive course. (Offered in even-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3570   | Chaucer in Context F (3-0) [0.50]                                          |        | This course will introduce students to significant aspects of Chaucer's writing read in the context of works by Chaucer's precursors and near contemporaries. Reading-intensive course. (Offered in even-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3630   | Writing Canada: Forging the Nation W (3-0) [0.50]                         |        | This multigenre course focuses on Canadian literature to World War One, examining cultural contestation in the Canadian settler colony among the Canadian, U.S., British, and indigenous peoples. Topics may include the rise of nationalist discourse, race and nation, landscape and the sublime, gothic, sentimental, and historical fiction, children's literature, slavery and resistance narratives, travel and captivity narratives. Reading-intensive course. (Offered in odd-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3670   | Twentieth-Century Canadian Literature and Criticism F (3-0) [0.50]         |        | This multigenre course examines formations of, and resistances to, ideas of national consciousness and cultural identity in Canadian literature and criticism in English from the beginnings of the twentieth century to the 1960s. Reading-intensive course. (Offered in even-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3680   | 20th- & 21st-Century Canadian Literature and Criticism F (3-0) [0.50]       |        | This course examines Canadian literature and criticism in English, since the 1960s, in relation to a variety of social, cultural, and historical contexts. Reading-intensive course. (Offered in odd-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3690   | History of Literary Criticism F (3-0) [0.50]                               |        | This course introduces students to the major critics and texts formative in the development of an English critical tradition. The study will begin with Plato and Aristotle, and proceed from the Renaissance through to modernist critical theory. (Offered in odd-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3750   | Studies in Postcolonial Literatures W (3-0) [0.50]                         |        | This course is a concentrated study in a major sub-area of postcolonial literature. Specific topics will vary each year, but may involve focus on a particular genre or region such as Africa, Australia, Canada, the Caribbean, India, and the Pacific. Reading-intensive course. (Offered in even-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3760   | Atlantic and Mediterranean Worlds W (3-0) [0.50]                          |        | A variable content course aimed at considering the intercultural effects which emerge from transnational, colonial, imperial, and/or diasporic relations, through literatures in English addressing the Atlantic, the Mediterranean, and contiguous lands. Texts will be selected from among the rich array of poetry, fiction, memoirs, letters, travel accounts, period histories and ethnographies, autobiographies and folkloric records that formed the literary culture of this period. Attention may be paid to diverse forms of oral and written expression, linguistic changes, the Creole continuum, the evolution of national and racial stereotypes, and religious syncretism. Reading-intensive course. (Offered in even-numbered years.)  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3860   | Topics in Literary and Cultural Studies U (3-0) [0.50]                     |        | These variable-content courses provide opportunities for topics in cross-period studies, inter- and transdisciplinary studies and cultural studies, among others that are not available in regular offerings. Consult the School for specific offerings in a given semester. Reading-intensive course.  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3870   | Topics in Literary and Cultural Studies U (3-0) [0.50]                     |        | These variable-content courses provide opportunities for topics in cross-period studies, inter- and transdisciplinary studies and cultural studies, among others that are not available in regular offerings. Consult the School for specific offerings in a given semester. Reading-intensive course.  
Prerequisite(s): 1.00 credits in English. |
| ENGL*3880   | Topics in Literary and Cultural Studies U (3-0) [0.50]                     |        | These variable-content courses provide opportunities for topics in cross-period studies, inter- and transdisciplinary studies and cultural studies, among others that are not available in regular offerings. Consult the School for specific offerings in a given semester. Reading-intensive course.  
Prerequisite(s): 1.00 credits in English. |
ENGL*3940 Seminar: Form, Genre, and Literary Value F,W (3-0) [0.50]

This seminar focuses on textual conventions such as form, style, and genre as they inform the interaction between reader and text. The impact of these conventions on the processes of literary production, reception, the production of meaning, and the assessment of literary value will be explored in relation to a limited number of literary works. (Choice of focus and texts to be determined by individual instructors.) Writing- and presentation-intensive course.

Prerequisite(s): ENGL*2080

ENGL*3960 Seminar: Literature in History F,W (3-0) [0.50]

This course explores the processes by which specific texts or genres emerge from particular historical moments and by which we attempt to reconstruct those historically specific connections. Seminars will focus on such topics as the archive surrounding one text, problems of period and canon, or genres and historical change. (Choice of period and texts will be determined by individual instructors,) Writing- and presentation-intensive course.

Prerequisite(s): ENGL*2080

ENGL*4240 Medieval & Early Modern Literatures U (3-0) [1.00]

This seminar provides the opportunity for intensive study of British literature from the beginnings to 1660. Students are advised to complete a 3000-level lecture course in this subject area prior to enrolling in the 4000-level course.

Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
Restriction(s): ENGL*4040 Restricted to students in the English major, who have completed 14.00 credits with an average of 70% in all course attempts in English.

ENGL*4250 18th- & 19th-C Literatures U (3-0) [1.00]

This seminar provides the opportunity for intensive study of British literature from 1660 to 1900. Students are advised to complete a 3000-level lecture course in this subject area prior to enrolling in the 4000-level course.

Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
Restriction(s): ENGL*4040 Restricted to students in the English major, who have completed 14.00 credits with an average of 70% in all course attempts in English.

ENGL*4250 United States Literatures U (3-0) [1.00]

This seminar provides the opportunity for intensive study of United States literatures. Students are advised to complete a 3000-level lecture course in this subject area prior to enrolling in the 4000-level course.

Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
Restriction(s): ENGL*4040 Restricted to students in the English major, who have completed 14.00 credits with an average of 70% in all course attempts in English.

ENGL*4270 Canadian Literatures U (3-0) [1.00]

This seminar provides the opportunity for intensive study of Canadian literatures. Students are advised to complete a 3000-level lecture course in this subject area prior to enrolling in the 4000-level course.

Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
Restriction(s): ENGL*4040 Restricted to students in the English major, who have completed 14.00 credits with an average of 70% in all course attempts in English.

ENGL*4280 Special Studies in English U (3-0) [1.00]

A seminar designed to provide students in semesters 7 and 8 with an opportunity to pursue studies in an area or areas of language or literature not available in other courses. The course may be taught by a visiting professor or members of the school.

Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
Restriction(s): ENGL*4100, ENGL*4110 Restricted to students in the English major, who have completed 14.00 credits with an average of 70% in all course attempts in English.
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| ENGL*4880 20th- & 21st-Century Poetry U (3-0) [1.00] | This seminar provides opportunities to study English-language modern and contemporary poetry. Students are advised to complete a 3000-level lecture course in this subject area prior to enrolling in the 4000-level course. | Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)  
Restriction(s): ENGL*4680 Restricted to students in the English major, who have completed 14.00 credits with an average of 70% in all course attempts in English. |  |
| ENGL*4890 Contemporary Literary Theory U (3-0) [1.00] | This course will study the major branches of contemporary literary theory. Topics covered will include structuralism, reader-oriented theory, feminist theory, new historicist and materialist critique, postcolonialist critique, and deconstruction. | Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)  
Restriction(s): ENGL*4690 Restricted to students in the English major, who have completed 14.00 credits with an average of 70% in all course attempts in English. |  |
| ENGL*4910 Honours English Essay S,F,W (3-0) [0.50] | A major essay (approx. 25 pages) on some subject of special interest to the student is prepared and written under the direction of a faculty member. Consent of the instructor must be obtained and the subject must be approved by the School prior to the semester in which the course is to be taken. This option is intended only for students who have performed particularly well within the honours program. Exceptional students may use ENGL*4910 for creative writing, on the approval of the instructor. | Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)  
Restriction(s): Instructor consent required. |
Environmental Biology

Department of Plant Agriculture

School of Environmental Sciences

Additional course listings may be found in the course descriptions for Microbiology, Plant Biology, Toxicology and Zoology.

ENVB*2030 Current Issues in Forest Science F (3-0) [0.50]

This course focuses on the analysis of current issues in forest science from a variety of perspectives. Aspects of natural and managed forest dynamics, ecology and diversity are discussed. Relationships between important tree species and their preferred environments are covered, with emphasis on Canada's forests. The course also explores the role of forests in the global context. School of Environmental Sciences (Last offering - Fall 2012)

Prerequisite(s): BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)

ENVB*4070 Biological and Cultural Control of Plant Diseases W (3-0) [0.50]

This course explores current concepts and approaches to managing plant pathogens and diseases in crops and natural plant communities by measures that have minimal impact on the environment. Topics include naturally-occurring biological control such as suppressive soils and induced host resistance, use of microbial agents and their modes of action, transgenic disease resistance, use of organic soil amendments and mulches to promote microbial diversity and suppress pathogens, and effects of sanitation, crop sequences, tillage, flooding, soil solarization and other cultural practices on microbial communities, including pathogens and on disease epidemics. Department of Plant Agriculture.

Prerequisite(s): 1 of BIOL*3050, ENVB*3210, ENVS*3210, MICR*3220

Last Revision: Oct. 19, 2012
Environmental Management

School of Environmental Sciences

ENVM*1000 Introductory Environmental Science F (3-2) [0.50]
Students will explore a broad range of environmental issues facing society today with particular focus on Canadian and local agriculture. This course will provide an understanding of the living and non-living factors as well as social and economic constraints involved in correctly identifying and resolving environmental issues. The interdisciplinary approach of environmental science is reinforced with real life case studies designed to challenge students to critically assess alternatives and/or possible solutions.

Restriction(s): Registered in B.B.R.M.
Location(s): Ridgeway

ENVM*1020 Introduction to Environmental Microbiology W (2-3) [0.50]
This course will introduce the students to Environmental Microbiology. Topics of discussion will include water and wastewater systems, soils and sediments; as well as the importance of bacteria in disease, nutrition, food and food processing. Students will be introduced to various methods of environmental monitoring such as sampling and testing of public drinking water, how to monitor for cleanliness in food processing facilities as well as water ways used for recreational purposes. Student immunization records are required. See course instructor.

Restriction(s): Registered in B.B.R.M. Environmental Management. Instructor consent required.
Location(s): Ridgeway

ENVM*1050 Surveying and GIS F (3-2) [0.50]
This course covers the basic principals of surveying, map reading and production. The student will learn how to read maps, take precise measurements, use basic survey instruments and create maps and site plans. The student will learn the basics of Geographic Information System (GIS) and the Global Positioning System (GPS) and use these tools to organize and store spatial data. The students will use Remote Sensing techniques for a range of applications.

Restriction(s): Registered in BBRM.EM
Location(s): Ridgeway

ENVM*1070 Nutrient Management W (3-2) [0.50]
This course will examine the best management practices associated with nutrient management on farms. Emphasis will be placed on the components and development of a nutrient management plan and the safe utilization of various nutrient sources (fertilizers, manures and biosolids) in agricultural production systems.

Restriction(s): Registered in B.B.R.M.
Location(s): Ridgeway

ENVM*1090 Occupational Health and Safety F (3-2) [0.50]
This course explores issues and legal requirements involved in promoting safe communities and work places. Technical, legislative, political, ethical and personal issues are explored. Students will examine and evaluate topics including the Workplace Hazardous Material Information System, Material Safety Data sheets, and the responsibilities of Joint Health and Safety Committees and confined space entry. Hazards to human health resulting from exposure to a variety of physical and chemical hazards found in the workplace will be examined.

Restriction(s): Registered in B.B.R.M.
Location(s): Ridgeway

ENVM*1100 Ecology F (3-2) [0.50]
This course is an introduction to the science of ecology - the study of interactions between organisms and their environments. Major topics include adaptation, populations, communities, biodiversity, ecosystems and competition. Students will analyze the effects of climate change and human activities on ecological processes. A detailed analysis of case studies of several environmental problems will be carried out, using ecological principles.

Restriction(s): Registered in B.B.R.M.
Location(s): Ridgeway

ENVM*1120 Environmental Monitoring W (2-3) [0.50]
This course will introduce the Environmental Management students to various methods used to measure environment impact. Students will achieve a summary understanding of the various government and municipal agency threshold limits and guidelines of the studied environmental parameters such as water quality, vegetation, terrestrial and social impact analysis. Student immunization records required for this course. See course instructor.

Restriction(s): Registered in B.B.R.M. Instructor consent required.
Location(s): Ridgeway

ENVM*1130 Introduction to Renewable Energy F (3-2) [0.50]
Students will develop a working knowledge of the major renewable sources of energy under development today. The focus will be Ontario, although examples from around the world will be discussed. Students will compare “green” technologies to traditional energy sources in order to understand the technological, economic and social issues surrounding the growth of each of the renewable energy types.

Restriction(s): Registered in BBRM.EM
Location(s): Ridgeway

ENVM*1150 Water Resource Management W (3-2) [0.50]
This course will focus on the significance of the various elements of the hydrologic cycle (e.g. precipitation, runoff, infiltration, groundwater recharge and discharge, etc.). The student will examine common water quality standards and the most significant quality problems including causes and pathways that contaminants follow to reach surface water and groundwater, with special focus on agricultural impacts. The course will introduce water and wastewater treatment systems.

Restriction(s): Registered in B.B.R.M.
Location(s): Ridgeway

ENVM*1200 Introduction to Environmental Science and Ecology F (3-2) [1.00]
The focus of this course is on the fundamentals of environmental and ecological science. By combining these related subjects into one course, students will gain a deeper understanding of the natural world and of the linkages between the environment and the biota. The interdisciplinary approach of environmental and ecological science is reinforced with in-class and field activities as well as case studies designed to challenge students to critically assess alternatives and/or possible solutions. A field research project will focus on the unique habitats near Ridgeway Campus, including Carolinian forest, tallgrass prairie, wetlands and oak savannah.

Restriction(s): ENVM*1000, ENVM*1100 Registered in B.B.R.M.
Location(s): Ridgeway

ENVM*2020 Environmental Law F (3-2) [0.50]
This course will introduce the student to the Canadian legal process. Topics will include how new laws and regulations are developed, drafted, passed and administered in Ontario and across Canada. The course will focus on environmental legislation at both the federal and provincial levels of government.

Restriction(s): Registered in B.B.R.M.
Location(s): Ridgeway

ENVM*2050 Agriculture and Environmental Stewardship F (3-2) [0.50]
This course examines the impact and role of farming in the agro-ecosystem. Lectures and case studies will be used to explore potential pathways of soil degradation and environmental contamination from agriculture, site assessment of environmental risk associated with specific farm operations and the utilization of best management practices for the conservation of soil, water and other natural resources.

Prerequisite(s): ENVS*2060 or SOIL*210
Restriction(s): Registered in B.B.R.M.
Location(s): Ridgeway

ENVM*2060 Sewage and Wastewater Treatment F (2-3) [0.50]
This course provides the student with the basic design concepts and operational techniques of industrial and municipal wastewater treatment systems. Treatment processes, optimization and testing methodologies as well as auditing and analytical/calculations, legal requirements and operator responsibilities will be addressed.

Prerequisite(s): ENVM*1120
Restriction(s): Registered in B.B.R.M.
Location(s): Ridgeway

ENVM*2070 Water Treatment F (2-3) [0.50]
This course provides the student with the basic design concepts and operational techniques of industrial and municipal water treatment systems. Treatment processes for ground and surface water, optimization and testing methodologies as well as auditing and analytical/calculations, legal requirements of water taking and operator responsibilities will be addressed.

Prerequisite(s): ENVM*1020 is strongly recommended, ENVM*1120
Restriction(s): Registered in BBRM.EM
Location(s): Ridgeway
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| ENVM*2080   | Industrial Waste Management W | 3-2 | The course is designed to give students a thorough understanding of the field of industrial waste management. From a regulatory perspective topics include Ontario non hazardous waste Statutes and Regulations. The course explores the various sub-sets within the field of industrial waste management. Topic areas include municipal and industrial recycling and waste minimization programs with emphasis on the development and design of programs that collect wastes generated in the Industrial, Commercial and Institutional sectors. Waste minimization, ISO 14001 and Environmental Management Systems methodologies are explored.  
Prerequisite(s): 3.00 credits  
Restriction(s): Registered in B.B.R.M  
Location(s): Ridgetown |
| ENVM*2090   | Spills Response Planning W | 3-2 | This course explores both the moral and ethical questions pertaining to the management and abatement of spills reporting, spills remediation and prevention strategies. The course will introduce students to the field of spill response and spill response planning. The current Province of Ontario Spills Legislation will provide the legislative framework for this course. Students will examine the development of industrial contingency and emergency planning.  
Prerequisite(s): 3.00 credits  
Restriction(s): Registered in B.B.R.M  
Location(s): Ridgetown |
| ENVM*2500   | Integrated Project (Environmental) W | 2-3 | Students will integrate the skills and knowledge gained in earlier courses in analysing the environmental systems of an industry, municipality, agri-business and/or agricultural enterprise. The students will work in teams to complete a detailed Environmental Management System and create environmental policies and action plans.  
Prerequisite(s): Minimum of 5.00 credits in the B.B.R.M. program  
Restriction(s): Registered in B.B.R.M.  
Location(s): Ridgetown |
| ENVM*3500   | Environmental Management Integrated Project W | 5-0 | Students will apply the skills and knowledge gained in earlier courses to analyzing environmental processes and issues associated with an industrial, municipal, or agricultural enterprise. Students will work in teams to complete a detailed environmental report with policy recommendations and action plans. (First offering - Winter 2014)  
Prerequisite(s): 5.00 credits  
Restriction(s): ENVM*2500. Registered in BBRM:EM  
Location(s): Ridgetown |
Environmental Sciences
School of Environmental Sciences
Department of Food, Agricultural and Resource Economics
The program in Environmental Sciences is interdisciplinary, involving courses from several different departments. See the B.Sc.(Env.) program information in Section X–Undergraduate Degree Programs.

ENVS*1030 Introduction to Environmental Sciences F (6-0) [1.00]
This course introduces students to what it means to think critically from an environmental sciences perspective. It covers an introduction to: philosophy of science, philosophy of the environment, the evaluation of scientific evidence, and scientific arguments. The course focuses on how we understand and recognize environmental problems, how we decide what to do about them, and what role science can and should play in these discussions. School of Environmental Sciences.
Restriction(s): Registration in the BSC(Env) program.

ENVS*1050 Geology and the Environment F (2-3) [0.50]
Geological materials, their origin, recognition and economic potential, use and location, oil and gas, coal, mineral deposits, aggregate resources, groundwater. Geological basis for environmental evaluation and land use. Emphasis on local and North American examples. School of Environmental Sciences.
Equates(s): GEOL*1050

ENVS*1060 Principles of Geology S,F,W (3-0) [0.50]
This course provides an introduction to geological principles, their historical development and application to interpreting Earth materials and processes. This course is suitable for those wishing a general knowledge of Earth sciences. (Offered through Distance Education only.) School of Environmental Sciences.
Restriction(s): May not be taken for credit by students in BBRM, BSC, or BSC(Env).

ENVS*1070 Agrometeorology W (3-0) [0.50]
This course examines weather and climate effects on agricultural production. The relation of water balance and other climate factors to growth and yield of crops, introduction to crop-weather modeling, climate hazards and their control, weather aspects of pest and disease management are discussed. School of Environmental Sciences.
Prerequisite(s): 1 of BIOL*1020, BIOL*1030, 2 of BIOL*1050, BIOL*1070, BIOL*1080, BIOL*1090
Equates(s): MET*2020

ENVS*1080 Meteorology and Climatology F (3-2) [0.50]
This course examines solar and terrestrial radiation; pressure systems and winds; atmospheric stability and vertical motions; air masses and fronts; clouds and precipitation; selected topics in applied meteorology including air pollution. The laboratory emphasizes the analysis and use of atmospheric data for solving environmental problems. School of Environmental Sciences.
Prerequisite(s): 1 of ENVS*2020, MET*2020 , PHYS*1000, PHYS*1070, PHYS*1080, PHYS*1110 , PHYS*1130
Equates(s): MET*2030

ENVS*1090 Plant Health and the Environment W (3-0) [0.50]
This is an interdisciplinary course on the nature and importance of diseases, insects and abiotic stresses on plant productivity and quality. A case history approach will be used to illustrate the biology of plant pests, the principles of pest population management, and related topics. School of Environmental Sciences
Prerequisite(s): BIOL*1040 or 2 of BIOL*1050, BIOL*1070, BIOL*1080, BIOL*1090
Equates(s): ENVB*2040

ENVS*2060 Soil Science S,F,W (3-2) [0.50]
This course is an introduction to the principles of soil science - the origin of soils, their classification and interpretation in natural and modified environments. Soil will be studied as a product of the natural environment, with a focus on formation processes and changes which occur when it is modified through use. A variety of uses including agriculture, forestry, recreation, and urban development will be considered. (Also offered through Distance Education format.) School of Environmental Sciences.
Equates(s): SOIL*2010
Restriction(s): This course is not for BSC(Agr) students.

ENVS*2070 Environmental Perspectives and Human Choices F (3-0) [0.50]
This is an interdisciplinary approach to environmental issues which offers opportunities to investigate social processes and philosophical considerations with respect to the position and influence of humankind, and the development of social conditions, values and economic activities that have led to our present situation. These investigations are carried out within the context of physical environmental considerations, such as the state of the earth, forests, air water and our use of energy, and will lead the student to a detailed consideration of the future. (Offered through Distance Education format only.) School of Environmental Sciences.
Equates(s): UNIV*2050

ENVS*2110 Earth Material Science F (3-3) [0.50]
Minerals are the building blocks of rocks, and rocks are the basis of the earth’s crust. The nature, classification and recognition of the common rocks and minerals and their chemical and physical transformations is dealt with. Emphasis is on the role that minerals and rocks play in determining the abiotic character of earth-surface environments. School of Environmental Sciences.
Prerequisite(s): 1 of ENVS*1050, GEOL*1050 , SOIL*2200
Equates(s): GEOL*2110

ENVS*2120 Introduction to Environmental Stewardship F (3-0) [0.50]
This course provides an introduction to the concepts of resource management, environmental planning and assessment, land stewardship and sustainable development. Case studies of specific issues such as parks and natural heritage conservation, agricultural land loss, and integrated rural resources management will provide insight on approaches to decision making. Included will be discussion of the concept of stewardship as an environmental ethics. (Offered through Distance Education only.) School of Environmental Sciences.
Equates(s): NRS*2120 , SOIL*2120

ENVS*2150 Terrestrial Systems F (3-2) [0.50]
In this course students will be taught how to apply quantitative methods to the analysis of terrestrial systems of the earth from many simultaneous perspectives. The material will include the physical, chemical and biological components of landforms and how they interact with humans. The economic, social and policy implications of humans interacting with terrestrial systems will also be emphasized. The history of the analysis of terrestrial systems will be systematically included in the material. School of Environmental Sciences.
Prerequisite(s): BIOL*1040 or BIOL*1070, CHEM*1050
Restriction(s): ENVB*3330

ENVS*2160 Glacial Geology W (3-0) [0.50]
Identical to (ENVS*2200 or GEOL*2200 ) but without laboratory. Lectures taken with (ENVS*2200 or GEOL*2200 ). School of Environmental Sciences.
Prerequisite(s): 1 of AGR*2330, ENVS*1050, ENVS*1060, ENVS*2060, GEOL*1050, GEOL*1100 , GEOL*1300, SOIL*2010
Equates(s): GEOL*2160
Restriction(s): GEOL*2150 , (ENVS*2200 or GEOL*2200 )

ENVS*2200 Glacial Geology W (3-3) [0.50]
This course is designed to give students an introduction to the processes, landforms and deposits of glacial environments. This includes basic principles of glaciology, the landforms and deposits found in various glacial and periglacial environments, and the nature of past glaciations in Earth history. Ancient to recent glacial deposits from the Great Lakes region and other international locations will be examined. A field trip will be scheduled. School of Environmental Sciences.
Prerequisite(s): 1 of AGR*2301, AGR*2320, ENVS*1050, ENVS*1060, ENVS*2060, GEOL*1050 , GEOL*1100 , GEOL*1300, SOIL*2010 , SOIL*2200
Equates(s): GEOL*2200
Restriction(s): (ENVS*2160 or GEOL*2160 ) , GEOL*2150

2012-2013 Undergraduate Calendar
Last Revision: Oct. 19, 2012
ENVS*2210 Introductory Apiculture F,W (3-0) [0.50]
This course is designed to acquaint the student with the broad field of beekeeping. It will include honey bee biology and behaviour, management for honey production, products of the hive, pests and enemies and the value of bees as pollinators of agricultural crops. (Also offered through Distance Education format.) School of Environmental Sciences.
Equate(s): ENVB*2210

ENVS*2230 Communications in Environmental Science F,W (4-0) [0.50]
This course provides students with direct training in the academic skills used in researching and communicating environmental science. Within the context of current problems in environmental science, students will develop skills in library research, statistical interpretation, oral and poster presentation and written communication to diverse audiences. Students will research and report on scientific issues within environmental issues being reported in the media. School of Environmental Sciences. (First offering - Fall 2013)
Prerequisite(s): ENVS*1030
Restriction(s): Registration in BSc(Env) or BSc(Agr) programs.

ENVS*2250 Geology of Natural Disasters S,W (3-0) [0.50]
This course will offer insight into the mechanisms of natural geological disasters and their effects on Planet Earth, human civilization and life in general. Before, during and after geological disasters such as earthquakes, volcanic eruptions, meteorite impact and climate change will be the focus of this course. This course will not count as a science credit for B.Sc. students. (Offered through Distance Education format only.) School of Environmental Sciences.

PREREQUISITE(s): 1 of ENVS*1050, GEOL*1060, GEOL*1100, GEOG*1300, GEOG*1350

Equate(s): GEOL*2250

ENVS*2310 Current Issues in Earth Surface Processes F (4-0) [0.50]
This course provides an introduction to a range of specific environmental and scientific issues relating to earth surface processes. Issues to be covered include geological resources, climate change, microclimatology and soil-plant-atmosphere interactions. Three examples of current problems of societal concern will be used as starting points to examine the role of science in addressing them, while developing students' knowledge of the underlying science and its relation to policy and economics. School of Environmental Sciences. (First offering - Fall 2013)
Prerequisite(s): ENVS*1030

ENVS*2320 Current Issues in Microbial and Molecular Science W (4-0) [0.50]
This course will introduce students to the scientific disciplines related to environmental microbiology and molecular biology, while further developing their ability to critically engage with scientific literature and apply it to interdisciplinary analysis of applied problems of current interest. School of Environmental Sciences. (First offering - Winter 2014)
Prerequisite(s): BIOL*1090

ENVS*2330 Current Issues in Ecosystem Science and Biodiversity F (4-0) [0.50]
This course provides an introduction to a range of specific environmental and scientific issues relating to ecological sciences. Issues to be covered include the biology of climate change, forest science and management of terrestrial ecosystems. Three examples of current problems of societal concern will be used as starting points to examine the role of science in addressing them, while developing students' knowledge of the underlying science and its relation to policy and economics. School of Environmental Sciences. (First offering - Fall 2013)
Prerequisite(s): BIOL*1070
Equate(s): ENVB*2030

ENVS*2340 Current Issues in Agriculture and Landscape Mgmt W (4-0) [0.50]
This course provides an introduction to a range of specific environmental and scientific issues relating to agriculture and landscape management. Issues to be covered include land remediation, environmental impacts of food production and surface water quality. Three examples of current problems of societal concern will be used as starting points to examine the role of science in addressing them, while developing students' knowledge of the underlying science and its relation to policy and economics. School of Environmental Sciences. (First offering - Winter 2014)
Prerequisite(s): AGR*2050 or (BIOL*1070, (ENVM*1000 or ENVS*1030)
Restriction(s): NRS*3000, Registration in BBRM, BSc(Env) or BSc(Agr) programs.

ENVS*2400 Sedimentary Environments F (3-3) [0.50]
This course provides an introduction to principles of sedimentology and stratigraphy as applied to various ancient and modern sedimentary systems. Students will learn to describe and interpret sedimentary deposits in terrestrial and marine systems as well as the larger forces that control the preservation and evolution of these sedimentary systems over geological time. The course includes several field trips. School of Environmental Sciences. (Offered in even-numbered years.)
Prerequisite(s): ENVS*1050 or GEOL*1050
Restriction(s): GEOL*2020, GEOL*4090

ENVS*3000 Nature Interpretation F,W (2-3) [0.50]
An exploration of communication and experiential learning theories and their application to natural history interpretation and environmental education program design. Students will develop and present interpretive materials and a program within the context of the existing nature interpretation program at The Arboretum. (Also offered through Distance Education format.) School of Environmental Sciences.
Prerequisite(s): 1 of BIOL*2060, BOT*2050, BIOL*3110
Equate(s): ENVB*3000

ENVS*3010 Climate Change Biology F (3-0) [0.50]
This course examines the impacts of climate change on living organisms, biological communities and ecosystems. The course focuses on what is known, and what is not known, about the ways in which the suite of changing climate variables influence biological systems. School of Environmental Sciences.
Prerequisite(s): (BIOL*1040 or BIOL*1070), (1 of BIOL*2060, BIOL*3110, BOT*2050), CHEM*1040
Equate(s): ENVB*3010

ENVS*3020 Pesticides and the Environment W (3-0) [0.50]
This course examines the role and use of pesticides by various facets of society and the effect of these pesticides on biological activities in the environment. Preparation of a research proposal is required for the course. (Offered through Distance Education only.) School of Environmental Sciences.
Prerequisite(s): [BIOL*1040 or (2 of BIOL*1050, BIOL*1070, BIOL*1080, BIOL*1090)], CHEM*1040
Equate(s): ENVB*3030

ENVS*3030 Conservation Field Course F (0-6) [0.50]
This course provides an opportunity for students to practice field skills in natural resource sciences. Topics will include forestry, ecological restoration, stream and wetland conservation, park and trail management, and nature conservation. Use of air photography and mapped data together with field guides will be emphasized. Guest professionals will assist with instruction on some topics, providing an opportunity for exposure to careers in this field. The course requires participation in a two week field experience held in early May, followed by field work during the summer, and a reflective evaluation in the Fall semester. This course must be recorded as part of your Fall course section and tuition and compulsory fees will be calculated accordingly. There is an extra fee to partially cover field costs. School of Environmental Sciences.
Prerequisite(s): 9.00 credits of a relevant program, such as all majors in the BSc(Env), or other degree programs such as Geography, Ecology, Agriculture.
Equate(s): NRS*3030
Restriction(s): Instructor consent required.

ENVS*3040 Natural Chemicals in the Environment F (3-0) [0.50]
This course explores the roles of naturally occurring chemicals in the inter-relationships of organisms, and the historical and current uses of natural chemicals by humans for agricultural and medicinal purposes. (Offered through Distance Education only.) School of Environmental Sciences.
Prerequisite(s): BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)
Equate(s): ENVB*3040

ENVS*3050 Microclimatology W (3-0) [0.50]
This course examines natural and intentionally-modified microclimates near the earth's surface; energy budgets; transport of mass and heat. Familiarization with some instruments for microclimatic measurements will be required. School of Environmental Sciences.
Prerequisite(s): 1 of ENVS*2030, MET*2030, GEOG*2110
Equate(s): MET*3050
ENVS*3060 Groundwater W (3-0) [0.50]
This course provides a general understanding of the physical and chemical processes that operate in the groundwater zone under natural and human-induced conditions. The interrelations between the groundwater regime and the other components of the hydrological cycle are studied. Considerable emphasis is placed on the applied aspects of topics such as exploration, testing and development of aquifers for water supply, the chemical quality of groundwater, and the hydrogeological aspects of waste disposal. School of Environmental Sciences.
Prerequisite(s): 1 of IPS*1110, MATH*1000, MATH*1080, MATH*1200 or Registration in BBRM
Equate(s): GEOL*3060

ENVS*3070 Environmental Soil Chemistry F (3-2) [0.50]
The formation and properties of clay minerals and organic matter; ionic exchange, soil acidity, and alkalinity, oxidation and reduction potential, and dissolution and precipitation. Laboratory sessions will illustrate principles of soil chemistry. School of Environmental Sciences.
Prerequisite(s): 1 of AGR*2301/2, AGR*2320, ENVS*2060, SOIL*2010
Equate(s): SOIL*3060

ENVS*3080 Soil and Water Conservation F (3-0) [0.50]
This course examines the processes leading to deterioration of soil and water quality, the impact of deterioration on use, and preventative or corrective measures: soil erosion by water and wind, soil compaction and salinization, drainage channel maintenance, sedimentation and nutrient enrichment of water, conservation programs and policies, and reclamation of severely disturbed soils and saline-sodic soils. Emphasis will be on concepts and solutions to problems in a systems approach. (Offered through Distance Education only.) School of Environmental Sciences
Prerequisite(s): 1 of AGR*2320, ENVS*2060, SOIL*2010
Equate(s): SOIL*3080

ENVS*3090 Insect Diversity and Biology W (3-3) [0.50]
This course is an overview of insect diversity and biology emphasizing groups of importance in conservation biology, outdoor recreation and economic entomology. Labs focus on insect identification and the development of a small insect collection. School of Environmental Sciences.
Prerequisite(s): BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)
Equate(s): ENVB*3090

ENVS*3100 Internship/Externship in Environmental Sciences S,F,W (0-6) [0.50]
This is a student initiated experiential learning opportunity to be undertaken either on or off campus, and developed in consultation with the Director of the School of Environmental Sciences. Details of the proposed activities will be outlined in a learning contract initiated by the student and agreed by the Director and an appointed project advisor prior to the commencement of the work experience. The supervisor will also provide a description of the project and/or the work experience. This course is intended for experiential learning which does not fit under an academic independent study and which is not part of the co-op work term. School of Environmental Sciences.
Prerequisite(s): 12.00 credits including ENVS*1020 or ENVS*1030
Restriction(s): Director consent required.

ENVS*3110 Resource Planning Techniques W (2-2) [0.50]
This is an intermediate techniques course directed at the application of a systematic approach to problem solving in natural resource management. Major topics include procedures of ecological land classification, computer-assisted resource analysis and environmental impact assessment. School of Environmental Sciences.
Prerequisite(s): ENVS*3120 or SOIL*3050
Equate(s): NRS*3100, SOIL*3100

ENVS*3120 Land Utilization F (3-1) [0.50]
Principles of land utilization and planning at the global, national, regional and local levels. Land characterization and classification using photo-interpretive techniques and computerized soil survey interpretive programs. Land capability/suitability for agriculture, forestry and engineering purposes. Emphasis on specific land use issues in Canada. School of Environmental Sciences.
Prerequisite(s): 1 of AGR*2301/2, AGR*2320, ENVS*2060, GEOG*1300, GEOL*1000, SOIL*2010
Equate(s): SOIL*3050

ENVS*3130 Lab and Field Methods in Groundwater F (0-3) [0.50]
The objective of this course is to provide a "hands-on" experience for students in common methods of measuring the physical properties of soil and geological materials in order to quantify the flow of water and solutes above and below the water table. Students will learn a variety of techniques and instruments through practical application in the field. School of Environmental Sciences.
Prerequisite(s): ENVS*3060 or GEOL*3060
Restriction(s): SOIL*3070, Registration in BSC(Env) or BBRM programs.

ENVS*3140 Management of Turfgrass Diseases F (2-2) [0.50]
In this course students will be taught how to apply quantitative methods to the analysis of aquatic systems of the earth from many simultaneous perspectives. The material will include the physical, chemical and biological components of the various liquid surficial structures and processes and also how they interact with humans. The economic, social and policy implications of humans interacting with aquatic systems will also be emphasized. The history of the analysis of aquatic systems will be systematically included in the material. School of Environmental Sciences.
Prerequisite(s): 10.00 credits including (BIOL*1030, BIOL*1040) or (BIOL*1070, BIOL*1090), CHEM*1040
Restriction(s): BIOL*3450

ENVS*3150 Aquatic Systems W (3-2) [0.50]
Systematic study of structural elements of the earth crust. Introduces concepts on the distribution, origin and structural development of the major landforms in North America and other continents (plate tectonics). The course provides examples of structural geology applied to engineering, environmental geology, and ore geology. Hands-on experience on deformation analysis, slope stability and interpretation of structures during the field trip and in classroom simulations. (Offered in odd-numbered years.) School of Environmental Sciences.
Prerequisite(s): ENVS*1050 or GEOL*1050, suitable geomorphology credit
Equate(s): GEOL*3090

ENVS*3170 Applied Structural Geology W (3-0) [0.50]
An examination of the chemical composition of both natural and contaminated waters at the earth's surface and the interaction of these waters with soils and sediments. The significance of these interactions will be studied with respect to the mobility of organic and metallic constituents in geochemical cycles and as contaminants in the environment. School of Environmental Sciences.
Prerequisite(s): 1 of CHEM*1010, CHEM*1050, CHEM*1310
Equate(s): GEOL*3190

ENVS*3200 Environmental Soil Biology W (3-3) [0.50]
This course explores soil biological processes involving both microflora and fauna with emphasis on waste management, soil fertility and structure, plant residue decomposition and xenobiotic compound biodegradation. Students will apply this knowledge in a project involving biodegradation of an organic waste. (Offered in even-numbered years.) School of Environmental Sciences.
Prerequisite(s): 10.00 credits including 1 of AGR*2320, ENVS*2060, SOIL*2010
Equate(s): SOIL*3200

ENVS*3210 Plant Pathology F (2-3) [0.50]
This course examines the nature of disease in plants, including their causal agents, etiology, biology, epidemiology, and management. Emphasis is placed on the historical and social importance of plant diseases, and on current issues in plant health. Each student is required to make a collection of 20 plant disease specimens. Students must contact the course instructor before starting their collection. School of Environmental Sciences.
Prerequisite(s): BIOL*1040 or BIOL*1070
Equate(s): ENVB*3210
ENVS*3230 Agroforestry Systems F (2-2) [0.50]
The planned and systematic integration of trees into the agricultural landscape can potentially result in sustainable environmental, ecological, economic and social benefits. The key aspects of deriving these benefits, associated science and management considerations, application potentials at the landscape level and adoption challenges will be discussed. Common temperate and tropical agroforestry systems (e.g. intercropping of trees and crops) will be discussed. Emphasis will be given to successful research and development case studies. School of Environmental Sciences
Prerequisite(s): 5.00 credits, (1 of BIOL*1040, BIOL*1050, BIOL*1070) ENVS*2070 or UNIV*2050
Equate(s): ENVB*3230

ENVS*3250 Forest Health and Disease F (2-2) [0.50]
The impact of beneficial and pathogenic microorganisms on forest health, and the biology and management of tree diseases in natural and urban ecosystems is covered in this course. Emphasis will be placed on ecological processes, host-pathogen interactions, mutualistic associations, wood decay, and human impacts on tree health. School of Environmental Sciences.
Prerequisite(s): 1 of BOT*2100, ENVB*2030, ENVS*2330
Equate(s): ENVB*3250

ENVS*3260 Field Methods in Geosciences F (2-2) [0.50]
This course is designed to provide experience in field methods and applied aspects of Earth surface science. The field camp portion will focus on geological mapping skills, while the rest of the term will be spent on developing a consulting proposal for a field-based project. Other topics covered will be project design, proposal writing, oral communication skills and ethics of field-based research. Students are required to notify the designated departmental instructor of their intention to participate in this course during the previous Winter semester. There will be a fee to cover partial costs in this course; students in financial need should approach the Director of the School of Environmental Sciences.
Prerequisite(s): (ENVS*1050 or GEOL*1050), (ENVS*2150 or GEOG*2000), (1 of ENVS*2200, GEOL*2150, GEOL*2200)
Equate(s): GEOL*3250
Restriction(s): Instructor consent required.

ENVS*3270 Forest Biodiversity W (4-0) [0.50]
This course examines biodiversity in forest ecosystems at a variety of scales from genes to landscapes. Relationships between biodiversity and forest ecosystem structure, function, and stability are explored. Approaches to conserving biodiversity in managed forests are discussed and evaluated. Analysis of the relevant scientific literature and practical experience with methods of quantifying biodiversity are emphasized in the weekly seminar. School of Environmental Sciences.
Prerequisite(s): (ENVS*2030 or ENVS*2330), (1 of BOT*2050, BIOL*2060, BIOL*3110)
Equate(s): ENVS*3270

ENVS*3280 Environmental Perspectives and Human Choices II W (3-0) [0.50]
The complexity and dimensions of key environmental issues introduced in (ENVS*2070 or UNIV*2050) are explored in greater detail. This will facilitate the student's ability to critically evaluate socio-economic-environmental linkages between contemporary challenges such as sustainable resources, energy, human population, education and communication, and environmental ethics. Supplementary voluntary workshop. (Offered through Distance Education format only.) School of Environmental Sciences.
Prerequisite(s): ENVS*2070 or UNIV*2050
Equate(s): UNIV*3250

ENVS*3290 Waterborne Disease Ecology F (3-2) [0.50]
This course examines emerging and re-emerging waterborne diseases (bacterial, protozoan, and viral) as a function of environmental change (including chemical and biological pollution and climate change). Waterborne diseases, in freshwater and marine ecosystems, will be examined from historical and contemporary issues as they relate to public and environmental health from regional, national, and international perspectives. Topics presented within the course will include current waterborne diseases of humans and aquatic fauna, detection of waterborne pathogens, microbial evolution, microbial physiology, water regulations and protection of drinking water. School of Environmental Sciences.
Prerequisite(s): BIOC*2580, (MBG*2000 or MBG*2040)
Equate(s): ENVS*3280

ENVS*3410 Independent Research I S,F,W (0-6) [0.50]
In this course the student will undertake an independent research project of a practical or theoretical nature that relates to environmental sciences and is conducted under the supervision of a faculty member. Projects may be a continuation of research conducted in ENVS*3410, or they may be on a separate research topic. Students must make arrangements with both a faculty supervisor and the course coordinator at least one semester in advance. A school registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the course is taken. School of Environmental Sciences.
Prerequisite(s): Must have completed a minimum of 10.00 credits. Minimum cumulative average of 70%.
Restriction(s): ENVS*3430. Instructor consent required. Restricted to students in BBRM:EM, BSC(Env), BSC(Agr) or BSCH.

ENVS*3420 Independent Research II S,F,W (0-6) [0.50]
In this course the student will undertake an independent research project of a practical or theoretical nature that relates to environmental sciences and is conducted under the supervision of a faculty member. This course introduces third year students to independent research. Projects may be a continuation of research conducted in ENVS*3410, or they may be on a separate research topic. Students must make arrangements with both a faculty supervisor and the course coordinator at least one semester in advance. A school registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the course is taken. School of Environmental Sciences.
Prerequisite(s): ENVS*3410. Must have completed a minimum of 10.00 credits.
Restriction(s): ENVS*3430. Instructor consent required. Registration in BBRM:EM, BSC(Env), BSC(Agr) or BSCH.

ENVS*3430 Independent Research S,F,W (0-12) [1.00]
In this course the student will undertake an independent research project of a practical or theoretical nature that relates to environmental sciences and is conducted under the supervision of a faculty member. This course introduces third year students to independent research. Projects may be a continuation of research conducted in ENVS*3410, or they may be on a separate research topic. Students must make arrangements with both a faculty supervisor and the course coordinator at least one semester in advance. A school registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the course is taken. School of Environmental Sciences.
Prerequisite(s): Must have completed a minimum of 10.00 credits. Minimum cumulative average of 70%.
Restriction(s): ENVS*3410, ENVS*3420. Instructor consent required. Registration in BBRM:EM, BSC(Env), BSC(Agr) or BSCH.

ENVS*4001 Project in Environmental Sciences F (3-0) [0.50]
First part of the two-semester course ENVS*4001/2. Refer to ENVS*4001/2 for course description. School of Environmental Sciences. (First offering - Fall 2015)
Equate(s): ENVS*4011
Restriction(s): 12.00 credits, Registration in the BSC(Env) program.

ENVS*4002 Project in Environmental Sciences F-W (3-0) [1.00]
The course permits the student the opportunity to integrate both the skills and knowledge acquired in earlier courses through application to current environmental problems and issues. Group research problems and exposure to critical environmental policy issues will form the core elements of the course. This is a two-semester course offered over consecutive semesters. When you select it you must select ENVS*4001 in the Fall semester and ENVS*4002 in the Winter semester. A grade will not be assigned to the average of 70%.
Restriction(s): ENVS*4011/2
Restriction(s): 12.00 credits, Registration in the BSC(Env) program.

ENVS*4002 Project in Environmental Sciences W (3-0) [0.50]
This is the second part of the two-semester course ENVS*4001/2. Refer to ENVS*4001/2 for course description. School of Environmental Sciences. (First offering - Winter 2016)
Prerequisite(s): ENVS*4001
Equate(s): ENVS*4012

ENVS*4011 Project in Environmental Sciences F (0-1) [0.00]
First part of the two-semester course ENVS*4011/2. Refer to ENVS*4011/2 for course description. School of Environmental Sciences. (First offering Fall 2014)
Prerequisite(s): Registration in semester 6 or 7 of the BSC(Env) degree program.
ENVS*4011 Project in Environmental Sciences F-W [0.50]
The course permits the student the opportunity to integrate both the skills and knowledge acquired in earlier courses through application to current environmental problems and issues. Group research problems and exposure to critical environmental policy issues will form the core elements of the course. Students must be registered and attend preliminary organizational meetings scheduled in the Fall semester. This is a two-semester course offered over consecutive semesters. When you select it you must select ENVS*4011 in the Fall semester and ENVS*4012 in the Winter semester. A grade will not be assigned to ENVS*4011 until ENVS*4012 is completed. School of Environmental Sciences. (Last offering Fall 2014 and Winter 2015)
Prerequisite(s): Registration in semester 6 or 7 of the BSC(Env) degree program.

ENVS*4012 Project in Environmental Sciences W-O [0.50]
Second part of the two-semester course ENVS*4011/2. Refer to ENVS*4011 for course description. School of Environmental Sciences. (Last offering - Winter 2015)
Prerequisite(s): ENVS*4011

ENVS*4040 Behaviour of Insects W (4-0) [0.50]
This course investigates the behaviour of insects within an ecological and evolutionary framework. Topics range from basic behavioral principles to the complex behaviour exhibited by the social insects. School of Environmental Sciences.
Prerequisite(s): 1 of BIOL*3110, ENVB*3090, ENVS*3090
Equate(s): ENVB*4040

ENVS*4090 Soil Management F (3-1) [0.50]
A lecture-tutorial course on the practical aspects of soil management for crop production as they relate to the physical, chemical and biological properties of soils; major emphasis is placed on soil fertility as related to field soil properties and fertilizer, lime and manure use, soil and plant testing for mineral nutrients. The beneficial aspects of drainage, irrigation, erosion control and related tillage practices on soil fertility are also presented. Due regard is given to both economic and environmental aspects of soil management practices. School of Environmental Sciences.
Prerequisite(s): 1 of AGR*2301/2, AGR*2320, ENVS*2060, SOIL*2010
Equate(s): SOIL*4090

ENVS*4100 Integrated Management of Invasive Insect Pests W (3-3) [0.50]
This course explores the concept of integrated pest management as it applies to the mitigation of invasive insect pests associated with agricultural and forest ecosystems. (Offered in even-numbered years.) School of Environmental Sciences.
Prerequisite(s): 1 of CROP*3300, CROP*3310, ENVB*2030, ENVB*3090, ENVS*2330, ENVS*3090, HORT*3280, HORT*3350, HORT*3510
Equate(s): ENVB*4100
Restriction(s): HORT*3230

ENVS*4110 Physical Meteorology W (3-0) [0.50]
This course introduces the principles of physical meteorology, including structure and composition of the atmosphere, radiative transfer, atmospheric energetics and cloud formation. All topics will be discussed in terms of global climate change. (Offered in odd-numbered years.) School of Environmental Sciences.
Prerequisite(s): ENVS*3050 or MET*3050
Equate(s): MET*4100

ENVS*4130 Chemical Ecology: Principles & Practice W (3-0) [0.50]
Chemicals mediate interactions between individuals of a species and between organisms and their host plants. These interactions can be manipulated and exploited to manage pest populations through the use of pheromones, allelochemicals and host plant resistance. The nature of these interactions (from behavioural to evolutionary), biological and chemical methods used in their investigation, and the application of chemical ecology to insect pest and plant disease management will be covered. (Offered in odd-numbered years.) School of Environmental Sciences.
Prerequisite(s): ENVB*3040 or ENVS*3040
Equate(s): ENVB*4130

ENVS*4140 Topics in Earth Science F-W (3-0) [0.50]
Lecture-discussion or seminar on selected topics in Earth Science to be conducted by faculty with expertise in the area. Students should check with the department to determine what topic, if any, will be offered during specific semesters. Field trips will be scheduled as required. School of Environmental Sciences.
Prerequisite(s): 1 of ENVS*1050, GEOG*1300, GEOL*1050, 0.50 credits at the 3000 level in a science appropriate to chosen topic
Equate(s): GEOL*4110
Restriction(s): Instructor consent required.

ENVS*4150 Natural Resources Management Field Camp F (0-6) [0.50]
This course investigates methods of collecting and processing land resource field data and includes practice in mapping information from air photographs and ground surveys, construction of inventory maps and integration of information. The course will consist of a one-week field camp prior to the fall semester, following which the students, working in groups, will prepare and present a comprehensive report in consultation with faculty. Students will be responsible for their living and transportation expenses for the field session, in addition to regular tuition fees. The course may be offered with different emphasis in content depending on student demand. Students are required to notify the designated departmental instructor of their intention to participate in the Field Camp during the previous Winter semester (or earlier if going on exchange programs) School of Environmental Sciences.
Prerequisite(s): 1 of ENVS*3110, NRS*3100, SOIL*3100
Equate(s): NRS*4110, SOIL*4110
Restriction(s): Registration in BBRM or BSC(Env). Instructor consent required.

ENVS*4160 Soil and Nutrient Management F (4-3) [0.50]
This course consists of the same lectures and seminars as (ENVS*4090 or SOIL*4090), but with an additional laboratory. The laboratory portion will focus on the regulatory requirements as stated under the Nutrient Management Act, 2001. Students will discuss nutrient management issues and gain practical experience using the NMAN software program. School of Environmental Sciences.
Prerequisite(s): 1 of AGR*2301/2, AGR*2320, ENVS*2060, SOIL*2010
Equate(s): SOIL*4130
Restriction(s): ENVM*1070, (ENVS*4090 or SOIL*4090)

ENVS*4210 Atmospheric Experimentation and Instrumentation W (3-0) [0.50]
This course covers the design and implementation of field experiments for atmospheric and environmental studies. Principles of operation and practical consideration of various meteorological and soil sensors will be discussed along with overall design and implementation procedures for environmental monitoring. Students will prepare a proposal detailing an experimental design of their own. School of Environmental Sciences.
Prerequisite(s): (ENVS*2030 or MET*2030) or (ENVS*3050 or MET*3050)
Equate(s): MET*4210

ENVS*4230 Biology of Aquatic Insects F (2-3) [0.50]
This course is a study of the adult and immature forms of aquatic insects. Students are required to present a collection of at least 200 insect specimens identified to genus. (Offered in odd-numbered years.) School of Environmental Sciences.
Prerequisite(s): ENVS*3090 or ENVS*3090
Equate(s): ENVS*4220

ENVS*4240 Biological Activity of Pesticides W (3-0) [0.50]
A study of the fate and mode of action of pesticides, e.g., insecticides, herbicides and fungicides. School of Environmental Sciences.
Prerequisite(s): 0.50 credits in biochemistry
Equate(s): ENVB*4240

ENVS*4250 Soils in the Landscape F (3-3) [0.50]
This course has field, laboratory and classroom components. It focuses on soil spatial and temporal variability, evaluating soil properties in relation to controlling factors and processes, on local to global scales. Students are exposed to standard procedures for collecting soil data in the field and laboratory, highlighting sampling design and data extrapolation, as well as relevant applications of digital imaging of soil (micromodeling) and landscapes. Principles of soil classification are discussed and several systems are introduced, emphasizing the Canadian System of Soil Classification; key concepts associated with the production of soil maps and reports, as well as the role of geographic information systems in archiving and interpreting soil information, are also examined. Students are required to notify the designated departmental instructor, of their intention to participate in this course, during the previous winter semester (or earlier, if going on exchange programs). This course has field camps which run during the week preceding the Fall semester. A fee is charged to cover some costs of field activities. School of Environmental Sciences.
Prerequisite(s): 12.50 credits including (1 of AGR*2320, ENVS*1050, ENVS*1060, ENVS*2060, GEOG*1300, GEOL*1050, GEOL*1100, SOIL*2010
Equate(s): SOIL*4250
Restriction(s): SOIL*3170, SOIL*4170 Instructor consent required.
### ENVS*4260 Field Entomology F,W (1-6) [0.50]
This course is taught in late April or May. Students may enroll in either the preceding Winter semester or following Fall semester. The course provides an introduction to insect sampling, observation, identification, and experimentation in field settings. Student activities are divided equally between observing, collecting and identifying specimens, from more than 20 families and an experimental component involving one or more studies to test hypotheses about the ecology or behaviour of insects. There are occasional lectures and discussions to highlight particularly interesting observations of insects. Student evaluation is based on the student's insect collection and associated logbook, a written paper describing their experiment, contributions to class discussions and activities, and peer evaluation. The field site is generally in the USA or South America. Course fees cover costs of room, board, supplies, and transportation to the field site(s). This course must be recorded as part of the student's Fall or Winter course selection and tuition and compulsory fees will be calculated accordingly. Detailed information is available from the Office of the Director - School of Environmental Sciences.

**Prerequisite(s):** (ENVS*3090 or ENVS*3090) or (ENVS*4040 or ENVS*4040)

**Restriction(s):** Instructor consent required.

### ENVS*4270 Insect Biosystematics W (2-3) [0.50]
A study of the lesser known groups of native insects and an introduction to taxonomic procedure and the principles of insect systematics. Students are required to assemble their own insect collections prior to registering in this course. The laboratory portion of the course will focus on identification of student insect collections. School of Environmental Sciences.

**Prerequisite(s):** ENVS*3090 or ENVS*3090

**Equate(s):** ENVS*4260

**Restriction(s):** Instructor consent required.

### ENVS*4280 Geomicrobiology F (3-0) [0.50]
This course focuses on understanding the role of microorganisms in shaping the solid surface of the Earth. This will include the major chemical and biochemical transformations by microorganisms in natural surface and subsurface environments. We will consider the contribution of microorganisms to crucial element cycles, including carbon, sulfur, and select metals, and ultimately to rock cycling. Aspects of early life on Earth, astrobiology, and environmental biotechnology will be included as appropriate. (Offered in odd numbered years.) School of Environmental Sciences.

**Prerequisite(s):** (1BIOL*1040 or MICR*1020) or (2 of BIOL*1070, BIOL*1080, BIOL*1090), (ENVS*1050 or GEOL*1050), 0.50 credits at the 3000 level in GEOL or MICR

**Equate(s):** GEOL*4240

**Restriction(s):** MICR*4280, MICR*4290

### ENVS*4300 Environmental Law & Regulation F (3-2) [0.50]
In this course, students will be asked to recruit their expertise in all of the basic and applied sciences to the task of understanding, participating in, and modifying where necessary the economic and legal systems of the world to deal with human exploitation of the earth. The course will include a discussion of the history of the success and failure of different economic and legal models and their impact on the sustainability of the earth's resources. Department of Food, Agricultural and Resource Economics. (Last offering - Fall 2015)

**Prerequisite(s):** 14.00 credits

**Restriction(s):** Registration in the BSC(Env) program; BCOMM:FAB, BCOMM:FAB:C

### ENVS*4350 Forest Ecology F,W (3-0) [0.50]
Principles of forest ecology with emphasis on the ecological principles needed for sound forest management. Biotic and abiotic components of forest ecosystems will be discussed in the context of energy flow, nutrient cycling, forest succession and appropriate silvicultural systems. School of Environmental Sciences.

**Prerequisite(s):** (ENVS*2030 or ENVS*2330), (1 of BOT*2050, BIOL*2060, BIOL*3110)

**Equate(s):** ENVS*4780

### ENVS*4410 Advanced Independent Research I S,F,W (0-12) [1.00]
In this course the student will undertake an independent research project of a practical or theoretical nature that relates to environmental sciences and is conducted under the supervision of a faculty member. This course is designed to provide a research intensive experience. The greater credit weighting allows the student to explore their research topic in greater depth. Projects may be designed to be completed in a single semester, or they may be designed to be completed over two semesters, in conjunction with ENVS*4420. Students must make arrangements with both a faculty supervisor and the course coordinator at least one semester in advance. A school registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the course is taken. School of Environmental Sciences.

**Prerequisite(s):** (ENVS*3410, ENVS*3420) or ENVS*3430. Must have completed a minimum of 15.00 credits. Minimum cumulative average of 70%.

**Restriction(s):** ENVS*4430. Instructor consent required. Registration in BSC(Env), BSC(Agr), BSCH or BBRM.

### ENVS*4420 Advanced Independent Research II S,F,W (0-12) [1.00]
In this course the student will undertake an independent research project of a practical or theoretical nature that relates to environmental sciences and is conducted under the supervision of a faculty member. This course is designed to provide a research intensive experience. The greater credit weighting allows the student to explore their research topic in greater depth. This course may be used to extend the research completed in ENVS*4410, or it may be used to gain experience in a different research area. Students must make arrangements with both a faculty supervisor and the course coordinator at least one semester in advance. A school registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the course is taken. School of Environmental Sciences.

**Prerequisite(s):** ENVS*4410. Must have completed a minimum of 15.00 credits. Minimum cumulative average of 70%.

**Restriction(s):** ENVS*4430. Instructor consent required. Registration in BSC(Env), BSC(Agr), BSCH or BBRM.

### ENVS*4430 Advanced Independent Research S,F,W (0-24) [2.00]
In this course the student will undertake an independent research project of a practical or theoretical nature that relates to environmental sciences and is conducted under the supervision of a faculty member. This course is designed to provide a research intensive experience that is completed in a single semester. Students must make arrangements with both a faculty supervisor and the course coordinator at least one semester in advance. A school registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the course is taken. School of Environmental Sciences.

**Prerequisite(s):** (ENVS*3410, ENVS*3420) or ENVS*3430. Must have completed a minimum of 15.00 credits. Minimum cumulative average of 70%.

**Restriction(s):** ENVS*4410, ENVS*4420. Instructor consent required. Registration in BSC(Env), BSC(Agr), BSCH or BBRM.
### Equine

**Ontario Agricultural College, Department of Animal and Poultry Sciences**

#### EQN*1010 Introduction to Equine Management F (2-6) [1.00]
This course provides the basis for understanding the equine industry, both from a practical and a theoretical perspective. Students will participate in daily routine care and management procedures, and learn basic techniques such as horse handling, grooming, bandaging, blanketing, tack, tractor driving and fire safety. Horse-environment interactions will focus on equine behaviour. The relationship of horses with humans will be explored from ancient times to modern times, including breeding for specific equestrian sports, prominent horsemen/women, and the variety of career options. Current issues will be explored including economic status and hot topics in the industry. Students may expect early morning and some weekend assignments. Students must provide their own grooming kit. Department of Animal & Poultry Science.

**Restrictions:** ENVM*1090, EQN*1020, EQN*1030, EQN*1100. Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*1020 Equine Management I F (1-2) [0.00]
This course provides hands-on learning in essential horse care and handling techniques. The emphasis is on daily and routine care of the horse. Safety is stressed throughout. Students may expect early morning and some weekend assignments. Depth of study is not meant to be exhaustive but rather to cultivate absolute proficiency in handling skills.

**Restrictions:** Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*1030 Equine Management II W (1-2) [0.00]
This course provides hands-on learning in essential horse care and handling techniques. Safety is stressed throughout. Students may expect early morning and some weekend assignments. Depth of study is not meant to be exhaustive but rather to cultivate absolute proficiency in handling skills.

**Prerequisite(s):** EQN*1020

**Restrictions:** Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*1050 Equine Facility Management and Design W (3-2) [0.50]
This course presents aspects of the building, renovating and management of equine facilities including site planning and engineering aspects of construction. Design of facilities, including unique features, are discussed in relation to management. Special consideration is given to environmental control, waste management and environmental stewardship.

**Equate(s):** EQN*1040

**Restrictions:** Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*1060 Equine Event Management I F (1-3) [0.50]
This course will introduce skills required to organize equine events, such as horse shows and clinics. Major topics include event planning, and managing event staff and volunteers. Required activities outside of regularly scheduled class hours will be assigned. Students will assist in the planning and staging of Equestrian Centre activities.

**Restrictions:** Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*1070 Equine Event Management II W (1-3) [0.50]
This course will further develop the skills required to organize equine events, such as horse shows and clinics. Major topics include regional impact, marketing and budgeting. Required activities outside of regularly scheduled class hours will be assigned. Students will assist in the planning and staging of Equestrian Centre activities.

**Prerequisite(s):** EQN*1060

**Restrictions:** Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*1100 Introduction to Equine Industry Trends and Issues F (3-0) [0.50]
This course introduces students to selected current global, national and regional issues in the horse industry. A balanced examination of the various commercial uses of horses, including PMU farming and the horsemeat trade, will challenge students to evaluate the current state of the industry.

**Restrictions:** Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*2020 Stable Management F (2-2) [0.50]
This two-faceted course offers students a first-hand opportunity to manage the daily operations of an equine facility and to act in the capacity of a teaching assistant. Students oversee the diploma courses in Stable Management and Stable Duty through supervising people, dealing with time and financial constraints, managing efficient productivity, teaching horse care skills, and professionalism in the workplace.

**Prerequisite(s):** EQN*1030, ENV*1090

**Restrictions:** Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*2040 Equine Anatomy and Physiology F (3-3) [0.50]
This course examines the gross anatomy and physiology of the horse. All the major body organs will be studied in relation to their function in the equine. Comparative analysis will be made to other domestic farm animals.

**Prerequisite(s):** BIOL*1040

**Restrictions:** Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*2050 Introduction to Equine Nutrition W (3-3) [0.50]
This course introduces fundamental concepts of nutrition from a biochemical perspective. The biological roles of carbohydrates, lipids and proteins are studied, as well as the role of metabolic pathways in maintaining equine health at the cellular, organ, and whole body levels. Diagnosis, management, and prevention of equine nutritional diseases are discussed.

**Prerequisite(s):** BIOL*1040

**Restrictions:** Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*2150 Equine Facility Management and Design W (3-2) [0.50]
This course introduces students to the design, development and management of an equine facility. Aspects of the building, renovating and management of horse facilities including site planning and interior design are presented. Special consideration is given to environmental control, waste management and environmental stewardship. Management topics include theoretical and practical skills, interacting with people, recruiting, supervising, motivating, training employees, effective listening, dealing with difficult people, group dynamics and leadership.

**Restrictions:** AGR*2100, EQN*1050, EQN*2020. Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*2200 Equine Industry Trends and Issues I F (3-0) [0.50]
This course discusses selected current global, national and regional issues in the horse industry. Analysis of strengths, weaknesses, opportunities and threats are applied to controversial issues such as industry certification and transportation legislation and enforcement.

**Prerequisite(s):** EQN*1010

**Restrictions:** Registration in BBRM.EQM

**Location(s):** Kemptville

#### EQN*2500 Equine Field Course F (0-4) [0.50]
In this 10-day field course, students will tour a selected area, visiting premier equine educational and industry locations managed by elite professionals. Students are exposed to a broad, high caliber learning experience from a variety of industry operations, providing a catalyst for future courses in the BBRM degree program. An additional fee will be assessed per student to cover the cost of transportation and accommodation. This course must be recorded as part of your Fall course selection and tuition and compulsory fees will be calculated accordingly. Contact course instructor during the preceding March course selection period.

**Prerequisite(s):** EQN*1050 or EQN*2150

**Restrictions:** Registration in BBRM.EQM Instructor consent required.

**Location(s):** Kemptville, Guelph

#### EQN*3050 Equine Exercise Physiology W (3-0) [0.50]
This course considers the conversion of absorbed nutrients into metabolic fuels and the use of these substrates for work and heat production in horses. This knowledge is used as a basis for the understanding of the training and performance of horses used for competitive purposes.

**Prerequisite(s):** ANSC*3080 or (EQN*2040, EQN*2050)

**Location(s):** Guelph
**EQN*3060 Equine Reproduction W (3-3) [0.50]**

Students will develop a solid foundation in reproductive endocrinology and physiology in the stallion and the mare, emphasis on physiology, breeding management and recognition of common reproductive problems in stallion, mare or foal. Practical experience includes dissection of reproductive tracts, semen collection and evaluation.

Department of Animal and Poultry Science.

Prerequisite(s): BIOL*1090, EQN*2040  
Restriction(s): Registration in BBRM.EQM  
Location(s): Kemptville

**EQN*3070 Equine Health Management W (3-3) [0.50]**

This course asks the equine student to apply principles of management to knowledge of the equine industry, equine facility design, biological systems and equine anatomy and physiology. The role of management in the optimization of the health of the horse is critical to success in the industry. Fundamental principles of horse health will be introduced including important indicators of individual and herd health, record keeping and the role of management in disease causation. Application of current, scientifically based management principles and techniques will ask the student to develop both proactive and reactive decision making skills in the context of equine health management.

Department of Animal and Poultry Science.

Prerequisite(s): EQN*2040  
Restriction(s): Registration in BBRM.EQM  
Location(s): Kemptville

**EQN*3500 Equine Integrated Project W (0-6) [1.00]**

This course facilitates education, communication and an exchange of ideas between students and equine businesses to enhance the development of the equine industry and its leaders. Student teams compile information on a real-life equine enterprise, including purpose, production, financial, marketing and business management data. Following an extensive evaluation of the enterprise, teams develop a comprehensive review and provide recommendations for improving or increasing the business productivity. Team members present recommendations to a panel of industry experts. Department of Animal & Poultry Science. (First offering - Winter 2014)

Prerequisite(s): 7.50 credits  
Restriction(s): Registration in BBRM.EQM  
Location(s): Kemptville

**EQN*4020 Feeding the Performance Horse W (3-0) [0.50]**

This course focuses on the nutrition of horses at peak levels of performance or endurance. The use of real-world, case-study scenarios allows for the evaluation of practical feeding programs across a range of equine performance situations.

Prerequisite(s): EQN*3050 or NUTR*3210  
Restriction(s): Registration in BBRM.EQM  
Location(s): Guelph

**EQN*4400 Equine Industry Trends and Issues II W (3-0) [0.50]**

This seminar course integrates discussion on selected current global, national and regional issues in the equine industry, building upon knowledge gained in earlier courses. Current issues in the equine industry will be examined through debate and discussion.

Prerequisite(s): 16.00 credits including EQN*2200  
Restriction(s): Registration in BBRM.EQM  
Location(s): Guelph
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>EURO*1050</td>
<td>The Emergence of a United Europe</td>
<td>3-0</td>
<td>This interdisciplinary course will provide students with an understanding of the events and processes resulting in economic integration in Europe after 1945. Economic, historical and political aspects will be emphasized.</td>
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<tr>
<td>EURO*1200</td>
<td>European Culture from the Mid 18th to the Mid 19th Century</td>
<td>4-0</td>
<td>This course explores major trends in European Culture in the context of political and social events. Focus will be on major developments in politics (e.g. the French Revolution, the birth of nationalism), philosophy (e.g. enlightenment, idealism), arts and letters (e.g. classicism, romanticism).</td>
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<td>(0.50)</td>
<td><strong>Restriction(s):</strong> EURO*2000</td>
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<tr>
<td>EURO*2200</td>
<td>European Culture from the Mid 19th Century to the 1920's</td>
<td>3-0</td>
<td>This course explores major trends in European culture in the context of political and social events. Topics studied include major political events and their significance for culture (e.g. bourgeois liberalism, revolts in the mid 19th century, World War I and its aftermath), thinkers who have shaped the 20th century (e.g. Nietzsche, Unamuno, Freud), avant-garde movement and innovation in the arts and letters (e.g. impressionism, futurism, expressionism, surrealism).</td>
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<td>(0.50)</td>
<td><strong>Prerequisite(s):</strong> EURO<em>1200 is recommended <strong>Restriction(s):</strong> EURO</em>1020</td>
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<tr>
<td>EURO*2300</td>
<td>European Culture since 1920</td>
<td>3-0</td>
<td>This course explores major trends in European culture in the context of political and social events. The focus will be on political events and their significance for culture (e.g. fascism, World War II and the Holocaust and their effects in the second half of the 20th century, the political reorganization of Europe, protest movements), new trends in thought (e.g. existentialism, structuralism, post-modernism feminism) and the arts and letters (e.g. neorealism epic theatre, new wave cinema).</td>
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<td>(0.50)</td>
<td><strong>Prerequisite(s):</strong> EURO<em>1200 and EURO</em>2200 are recommended <strong>Restriction(s):</strong> EURO*1020</td>
</tr>
<tr>
<td>EURO*3150</td>
<td>Topics in European Film</td>
<td>3-0</td>
<td>This course will examine representative French, German, Italian and Spanish films in a socio-political context. It will focus on the interaction between the films' aesthetics and the political and cultural conditions in Europe. The topics to be discussed in the course will centre on the relationship between the development of major movements in European film, such as Italian Neo-Realism and the French, German and Spanish New Waves, and film makers' ideological projects such as the construction or deconstruction of national, gender and ethnic identity. (Offered in even-number years.)</td>
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<tr>
<td>EURO*4600</td>
<td>Honours Seminar in European Studies</td>
<td>3-0</td>
<td>A seminar course designed to explore one or more topics of European culture, history and/or business, depending on the expertise of the instructor. Students should consult the Coordinator of European Studies for specific offerings.</td>
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<td>(0.50)</td>
<td><strong>Prerequisite(s):</strong> 10.00 credits, (2 of ARTH<em>1520, EURO</em>1050, EURO<em>1200, EURO</em>2200, EURO<em>2300, HIST</em>2510, HIST<em>3090, MUSC</em>1060, POLS*3450)</td>
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<tr>
<td>EURO*4740</td>
<td>Research Project in European Studies</td>
<td>3-0</td>
<td>An independent study course that requires a research project on an aspect of European Studies. The topic must be approved by the Coordinator of the European Studies Program. Research is undertaken with the guidance of a faculty advisor, and seminar presentations will be included. A final research paper must be written in the student's chosen core language. Note: In order to demonstrate language proficiency and complete the requirements of EURO<em>4740, students have another option. They may choose to spend their third year studying at a European university, in the country where their chosen core language is spoken. Those who can demonstrate that they have successfully written a major academic paper or exam in their chosen core language while registered in a course at a European university as part of their approved study year will be waived from EURO</em>4740. See the Coordinator for the European Studies program for more information.</td>
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<td></td>
<td>(0.50)</td>
<td><strong>Prerequisite(s):</strong> EURO<em>1020, EURO</em>1050, EURO<em>2000, EURO</em>2070, Approval of the Coordinator for the European Studies Program. <strong>Restriction(s):</strong> Approval of the Coordinator for the European Studies Program.</td>
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</table>
External Courses

All courses labeled XSEN*XXXX are Seneca College Courses. The corresponding Seneca Course numbers are provided. Detailed course profiles can be accessed through the Seneca College home page at http://www.senecac.on.ca/. All XSEN*XXXX courses are limited to students in the B.Sc.(Tech.) program or B.Sc. Biological and Pharmaceutical Chemistry.

XSEN*3020 Pharmaceutical Analysis F,W (2-4) [0.50]
The aim of this course is to simulate the pharmaceutical quality control laboratory. Students are introduced to pharmaceutical terms, definitions and forms, drug legislations, and regulatory agencies (FDA, TPP). Strong emphasis is placed on the navigation and interpretation of pharmacopeial compendia (USP, BP, EP). Practical aspects include physical, wet chemical and instrumental analyses of drug substances, in-process materials and finish products using official pharmacopeial methodologies. This course is taught at Seneca College.
Prerequisite(s): BIOC*2580, CHEM*2400
Restriction(s): Restricted to BSC(TECH), BSC.BPCH
External Course Code(s): Seneca #PHA-333

XSEN*3030 Pharmacology and Applied Toxicology W (3-3) [0.50]
This subject is an introduction to the general aspects of pharmacology and toxicology. The lecture topics will cover the pharmacological activity of drugs on the autonomic nervous system, central nervous system and the cardiovascular system. The laboratory practicals will focus on testing, drug screening, and clinical trial methodology. This course is taught at Seneca College.
Prerequisite(s): BIOC*2580, CHEM*2400
Restriction(s): Restricted to BSC(TECH), BSC.BPCH
External Course Code(s): Seneca #PHC-533

XSEN*3040 Occupational Health and Chemistry W (2-3) [0.50]
A general coverage of general aspects of industrial hygiene. Specific topics include Canadian legislation with respect to Occupational Safety, modes of evaluation of chemical exposure, occupational toxicology, and instrumentation associated with the evaluation of the occupational environment. This course is taught at Seneca College.
Prerequisite(s): CHEM*2700
Restriction(s): Restricted to BSC(TECH), BSC.BPCH
External Course Code(s): Seneca #IOC-433

XSEN*3060 Pharmaceutical Analysis - Advanced W (2-3) [0.50]
This course reinforces the concept of how the pharmaceutical laboratory works by focusing on method validation requirements within the pharmaceutical industry. It introduces students to the regulatory (ICH, FDA) requirements and guidelines for systems validation, including TPP-acceptable methods and GMP regulations. Validation methods that are taught include Related Substances, Assay, Dissolution and Cleaning. Critical validation parameters (e.g., linearity, specificity, limit of quantitation, etc.) are focused on as well as validation protocols including establishing specifications and dealing with exceptions or out-of-specification (OOS) results. Process validation characteristics (i.e., Design Qualification (DQ), Installation Qualification (IQ), Operation Qualification (OQ), Performance Qualification(PQ) or System Suitability) are also emphasized as well as "Best Practices" such as Process Capabilities and Annual Product Review. This course is taught at Seneca College.
Prerequisite(s): BIOC*2580, CHEM*2400
Restriction(s): Restricted to BSC(TECH), BSC.BPCH and BSC.BPCH:C.
External Course Code(s): Seneca #PHA-533

XSEN*3070 Pharmaceutical Product Formulations F,W (2-3) [0.50]
This subject deals with the theoretical and practical aspects of pharmaceutical product formulation with an emphasis on semi-solid and liquid formulations. The students prepare and test ointments, creams, lotions, and syrups in the laboratory. Formulation as it relates to overall product stability and efficacy is also covered in both theoretical and practical terms. This course is taught at Seneca College.
Prerequisite(s): CHEM*3750
Restriction(s): XSEN*4020, Restricted to BSC(TECH), BSC.BPCH and BSC.BPCH:C.
External Course Code(s): Seneca #PPF-633

XSEN*3090 Biopharmaceuticals F,W (3-0) [0.50]
This subject introduces the student to the rapidly developing field of biotechnology and biopharmaceuticals. Techniques used in the development of biopharmaceuticals will be emphasized as well as large-scale production of biologicals manufactured by genetic engineering processes. This course is taught at Seneca College.
Prerequisite(s): BIOC*2580, CHEM*2700
Restriction(s): XSEN*4050, Registration in BSC(TECH), BSC.BPCH major
External Course Code(s): Seneca #BPH-633

XSEN*3200 Pharmaceutical Organic Chemistry W (1-3) [0.50]
The determination of the structure of organic compounds using spectroscopic methods such as N.M.R. and mass spectroscopy are discussed. Correlation of structure and reactivity (i.e. drug activity) of organic compounds is also explored. A multi-step synthesis of an anesthetic (lidocaine) and mass-spectrometric analysis of an unknown organic compound (or mixture) are examples of lab-projects. This course is taught at Seneca College.
Prerequisite(s): CHEM*3750
Restriction(s): XSEN*4020, Restricted to BSC(TECH), BSC.BPCH and BSC.BPCH:C.
External Course Code(s): Seneca #BPH-633

XSEN*3210 Introduction to Pharmaceutical Manufacturing W (2-3) [0.50]
This laboratory oriented course is intended to introduce students to the world of pharmaceutical analysis and manufacturing. Certain select physical and chemical techniques used in the control of raw materials and finished dosage forms are emphasized. Topics will include the methods and equipment required to produce solid dosages.
Prerequisite(s): CHEM*2700
Restriction(s): Restricted to BSC.BPCH and BSC.BPCH:C.
External Course Code(s): Seneca #PM-472

XSEN*4010 Pharmaceutical Calculations W (3-0) [0.50]
This subject deals with computations relevant to pharmaceutical topics. Included are the representation of scientific and technical data, chemical kinetics and drug stability, osmo-lality and tonicity, pH and solubility, viscosity, phase rule and numerous pharmaceutical calculations (e.g. manufacturing formulas, dosage formulations, radiochemistry, concentration, alligation, HLB, etc.). This course is taught at Seneca College.
Prerequisite(s): BIOC*3570, CHEM*2400
External Course Code(s): Seneca #PHC-533

Last Revision: Oct. 19, 2012
2012-2013 Undergraduate Calendar
Family Relations and Human Development

Department of Family Relations and Applied Nutrition.

These courses support two majors offered by the Department of Family Relations and Applied Nutrition: Adult Development, and Child, Youth and Family.

FRHD*1010 Human Development W (3-0) [0.50]
This course is an introduction to the study of the development of the individual throughout the life cycle. Emphasis will be placed on the interrelationships between physiological, sociological and psychological aspects of normal human development. (Also offered through Distance Education format.)

Restriction(s): Not available to Child, Youth & Family or Child, Youth & Family Co-op majors.

FRHD*1020 Couple and Family Relationships W (3-0) [0.50]
A survey of family dynamics throughout the life cycle, emphasizing themes of power, intimacy and family diversity. Topics may include: gender socialization, sexuality, mate selection, communication, abuse, couple interaction, parent-child relations, divorce, remarriage. (Also offered through Distance Education format.)

Equate(s): FRHD*2010

FRHD*1100 Life: Health and Well-Being F (3-0) [0.50]
This course integrates the theory, application and research of various aspects of health-related topics across the lifespan, emphasizing relevance to the lives of young adults.

Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods.

FRHD*2040 Principles of Program Design for Children W (3-0) [0.50]
This course will examine the elements involved in planning and implementing quality play-based programs for young children. Some of the issues include: the role of the teacher, meeting developmental needs, the materials and the organization of the environment, and instructional strategies. The course will involve a workshop component.

Prerequisite(s): FRHD*2270 or PSYC*2450
Restriction(s): Restricted to students in B.A.Sc. Program (CYF, CYF:C majors).

FRHD*2060 Adult Development and Aging F (3-0) [0.50]
This course provides an overview of major theoretical approaches, research issues and methodologies, and significant research findings which relate to adult development and aging.

Prerequisite(s): 1 of ANTH*1150, FRHD*1010, FRHD*1100, PSYC*1000, PSYC*1100, PSYC*1200, SOC*1100

FRHD*2100 Development of Human Sexuality F (3-0) [0.50]
This course covers a social scientific analysis of human sexuality. Emphasis will be placed on the development of sexuality within an interpersonal context. (Also offered through Distance Education format.)

Prerequisite(s): 4.50 credits
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods.

FRHD*2110 Exceptional Children and Youth W (3-0) [0.50]
An overview of childhood exceptionalities including intellectual differences, communication disorders, sensory impairments, developmental and behavioural disorders, and health problems. Issues faced by the exceptional child as well as the parents and siblings are discussed. (Also offered through Distance Education format.)

Prerequisite(s): FRHD*1020, [2 of FRHD*2260, FRHD*2280, (FRHD*2270 or PSYC*2450)]

FRHD*2260 Infant Development W (3-0) [0.50]
This course is an examination of developmental principles and milestones characterizing infant development from conception to 24 months. Emphasis will be placed on understanding the nature of the reciprocal family-infant interactions during this period, and on the societal context influencing those interactions. (Also offered through Distance Education format.)

Prerequisite(s): 1 of ANTH*1150, FRHD*1010, FRHD*1100, PSYC*1000, PSYC*1100, PSYC*1200, SOC*1100

FRHD*2270 Development in Early and Middle Childhood F (3-0) [0.50]
This course is an examination of development in the early and middle childhood years, with emphasis on family and societal contexts.

Prerequisite(s): 1 of ANTH*1150, FRHD*1010, FRHD*1100, PSYC*1000, PSYC*1100, PSYC*1200, SOC*1100
Restriction(s): PSYC*2450

FRHD*2280 Adolescent Development W (3-0) [0.50]
This course examines psychosocial development in adolescence, emphasizing physiological, social and emotional changes. (Also offered through Distance Education format.)

Prerequisite(s): 1 of ANTH*1150, FRHD*1010, FRHD*1100, PSYC*1000, PSYC*1100, PSYC*1200, SOC*1100

FRHD*2300 Principles of Program Design for Youth W (3-0) [0.50]
This course will examine the elements involved in planning and implementing effective prevention, education, and support programs for youth and their families. Programs include alternative education, independent living, community justice initiatives, sexual health, and physical education and nutrition strategies. Major topics covered in this course include: the roles of organizations and child and youth counsellors; empowerment of youth, their families and communities; working with diverse populations; needs assessments; program planning and service delivery; and program evaluation. Case studies of innovative programs are highlighted.

Prerequisite(s): FRHD*2280, (FRHD*2060 or FRHD*2270)
Restriction(s): Restricted to students in B.A.Sc. CYF and CYF:C.

FRHD*2350 Principles of Program Design in the Human Services W (3-0) [0.50]
This course will examine the elements involved in planning and implementing effective prevention, education, and support programs for various populations in community settings. Programs include health promotion, sexual health, and support programs for new parents, new Canadians, seniors, caregivers, and individuals with disabilities. Major topics covered in this course include: the roles of organizations and human service professionals; empowerment within individuals, families and communities; working with diverse populations; needs assessments; program planning and service delivery; and program evaluation. Case studies of innovative programs are highlighted.

Prerequisite(s): FRHD*1100
Restriction(s): Restricted to students in B.A.Sc. ADFW, ADFW:C, ADEV, ADEV:C.

FRHD*3040 Parenting and Intergenerational Relationships W (3-0) [0.50]
This course is a study of research concerning parent-child relationships across the lifespan.

Prerequisite(s): 9.50 credits including FRHD*1020, (1 of FRHD*1100, FRHD*2270, PSYC*2450)
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods.

FRHD*3060 Principles of Social Gerontology F (3-0) [0.50]
A study of social and health aspects of individual and population aging, including theories and implications for understanding and working with the elderly.

Prerequisite(s): 9.50 credits including (FRHD*1020 or SOAN*3100)

FRHD*3070 Research Methods: Family Studies F (3-0) [0.50]
This course is a critical examination of research methods in family studies.

Prerequisite(s): 4.50 credits
Restriction(s): Restricted to students in B.A.Sc.

FRHD*3090 Poverty and Health F (3-0) [0.50]
This course offers an in-depth examination of the factors associated with poverty across the lifespan, with a focus on the relationships between poverty and health and development. Poverty within vulnerable groups, issues concerning inequality and strategies to address poverty will also be explored. (Offered in odd-numbered years)

Prerequisite(s): 9.50 credits

FRHD*3150 Strategies for Behaviour Change W (3-0) [0.50]
This course will review the nature and use of behaviour change strategies commonly used in interventions with children, youth, and their families.

Prerequisite(s): 2 of FRHD*1010, FRHD*2060, FRHD*2260, FRHD*2270, FRHD*2280
Restriction(s): This is a Priority Access Course for ADEV, ADEV:C, ADFW, ADFW:C, CYF, CYF:C and FCS minor and some restrictions may apply during some time periods.

FRHD*3180 Observation and Assessment Laboratory F (2-1) [0.50]
Direct observation as a strategy for collecting information on children’s behaviour in applied and research settings is the focus of this laboratory course. Emphasis will be placed on theory, recording and interpreting observational data and communicating findings in written reports.

Prerequisite(s): (FRHD*2040 or FRHD*2300), FRHD*2100
Co-requisite(s): FRHD*3200 or FRHD*3250
FRHD*3190 Administration of Programs for Children W (3-0) [0.50]

This course examines the roles and responsibilities of administrators in programs for children with emphasis on the development of appropriate policies and procedures; management of human and financial resources; and internal and external communication within the context of multidisciplinary settings. Attention will be given to quality assurance, professional ethics, and continuing professional development. (Offered through Distance Education only.) (Offered in even numbered years)

Prerequisite(s): 7.00 credits including (1 of FRHD*2260, FRHD*2270, PSYC*2450)

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FRHD*3200 Practicum - Child F,W (2-10) [1.00]

This practicum provides students with a seminar and supervised experience with children and is designed to demonstrate the application of theory studied earlier in the program. It will also provide opportunities for working directly with young people while examining such topics as the role of the teacher, teacher-child interaction, and program implementation. Students wishing to enrol in this course must consult with the instructor during course selection.

Prerequisite(s): FRHD*1020, FRHD*2040, NUTR*1010
Equate(s): CSTU*3170, FRHD*3170
Restriction(s): Registration in the B.A.Sc. program (Child, Youth and Family or Child, Youth and Family Co-op majors). Instructor consent required.

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FRHD*3250 Practicum in Youth F,W (3-12) [1.00]

Through seminar and supervised experience with youth, students will demonstrate the application of theory studied earlier in the program. This practicum course will also provide opportunities for working directly with youth in a community setting while examining the role of the professionals involved and the communication with youth and community members. Developing skills in programming planning, implementation, and evaluation is a primary objective. Students wishing to enrol in this course must consult with the instructor during course selection.

Prerequisite(s): FRHD*1020, NUTR*1010, FRHD*2300
Restriction(s): Registration in the B.A.Sc. program (Child, Youth and Family or Child, Youth and Family Co-op majors). Instructor consent required.

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FRHD*3400 Communication and Counselling Skills F,W (3-0) [0.50]

This course examines an examination and analysis of the theories and methods of communication as applied within the processes of family counseling and consultation.

Prerequisite(s): 4.50 credits including (FRHD*1020 or FRHD*1100)
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see departmental website for more information.

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FRHD*4020 Family Theory F (3-0) [0.50]

This course analyses theoretical approaches and concepts in the study of the family.

Prerequisite(s): 12.50 credits including FRHD*1020

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FRHD*4070 Topics in Family Relations and Human Development U (3-0) [0.50]

Lecture-discussion or seminar on a selected topic in family studies. To be conducted by regular or visiting faculty with expertise in the area. Students should check with the Department of Family Relations and Applied Nutrition to determine what topic will be offered during specific semesters and which prerequisites, if any, are appropriate.

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FRHD*4080 Topics in Family Relations and Human Development U (3-0) [0.50]

Lecture-discussion or seminar on a selected topic in family studies. To be conducted by regular or visiting faculty with expertise in the area. Students should check with the Department of Family Relations and Applied Nutrition to determine what topic will be offered during specific semesters and which prerequisites, if any, are appropriate.

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FRHD*4170 Practicum - Child, Youth and Family F,W (3-16) [1.00]

Seminar and experience with children in an appropriate field setting to be assigned by the department. Emphasis will be upon developing, implementing and evaluating program plans for children in educational and community settings. Students will acquire communication and interactive skills with children and adults. Students wishing to enrol in the course must consult with the course instructor during the course selection period.

Prerequisite(s): 1 of FRHD*3170, FRHD*3200, FRHD*3250
Restriction(s): Instructor consent required.

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FRHD*4180 Assessment and Intervention F (2-2) [0.50]

Principles and theories of assessment and evaluation as related to the child, the family, and to child oriented intervention, education and social service programs are examined in this course.

Prerequisite(s): 12.00 credits including FRHD*2110, FRHD*3070
Co-requisite(s): FRHD*3180
Restriction(s): Registration in the B.A.Sc. program (Child, Youth and Family or Child, Youth and Family Co-op majors).

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FRHD*4190 Assessment in Gerontology F (2-2) [0.50]

This course provides an examination and critique of current methods of assessing older adults. Tools to be considered include those for assessing dementia, depression, and pain. Students will examine diagnostic criteria that form the underpinnings of most tests and then examine each test for its psychometric properties and appropriate use. An understanding of the ethical principles governing assessment will be gained.

Prerequisite(s): FRHD*2060
Restriction(s): Semester 7 and above.

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FRHD*4200 Issues in Human Sexuality W (3-0) [0.50]

An advanced analysis of sexual development. Specific attention will be given to sexual problems, and the methods and issues associated with sex education and counselling.

Prerequisite(s): FRHD*1020, FRHD*2100 and 1.00 credit at the 3000 level in Family and Social Relations, Psychology or Sociology
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods.

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FRHD*4210 Senior Seminar in Early Education and Care F (3-0) [0.50]

The course offers a study of the historical and philosophical basis of programs for young children evaluated from a developmental perspective. Emphasis will be on current approaches and programs and contemporary issues in early childhood programming.

Prerequisite(s): FRHD*3200
Equate(s): CSTU*4210

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FRHD*4250 Aging and Health W (3-0) [0.50]

This course offers upper level undergraduates a forum to explore issues related to aging and health across the adult life span. More specifically, the conceptual groundwork necessary for understanding the roles of the life span developmental perspective, individual development, physiological changes in human aging, contextual influences and interactions, and several models/theories of aging and health will be examined. A primary objective of the course is the integration of models and theory to facilitate understanding of aging and health topics. Topics include but are not limited to: age changes and disease processes (both acute and chronic); mental health and illnesses; medication use; disease prevention and health promotion; influence of health on family relationships, caregiving, and placement decisions; systemic and societal influences on health; and ethical issues and controversies surrounding the end-of-life care and decision making, advanced directives, assisted suicide, and death and dying.

Prerequisite(s): 10.00 credits including FRHD*2060

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FRHD*4260 Social Policy and Gerontology W (3-0) [0.50]

This course examines aging in adult development in relation to social policy with special reference to families.

Prerequisite(s): FRHD*2060
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see departmental website for more information.

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FRHD*4290 Practicum II: Adult Development F,W (3-16) [1.00]

This course enables students to extend their knowledge and professional skills in a second supervised placement in a health or social service agency. The practicum and seminar provides students with additional opportunities to integrate theoretical knowledge with practice experiences. Students are expected to assume additional responsibilities related to program design and implementation and in their supervised work with individuals and/or groups. Students wishing to enrol in this course must consult with the instructor during the course selection period.

Prerequisite(s): FRHD*3290
Restriction(s): Restricted to students in B.A.Sc. ADEV, ADEV-C, ADFW, ADFW-C. Instructor consent required.
### FRHD*4310 Professional Issues F (3-0) [0.50]
This course examines ethical and professional issues in working with children, youth, adults of all ages, and their families. A variety of institutional settings are considered (e.g., school systems, treatment agencies, youth residential programs, senior care facilities). The complexities of professional practice with diverse populations are explored in depth. Legal aspects relevant to work in this area are also addressed.

**Prerequisite(s):** 12.00 credits including FRHD*3400
**Restriction(s):** This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see departmental website for more information.

### FRHD*4320 Social Policies for Children, Youth and Families W (3-0) [0.50]
This course focuses on current social policies, programs, and services that affect children's development and family well-being. Issues include policies that affect income security, parental effectiveness, social service provision, and community resources.

**Prerequisite(s):** 9.50 credits
**Co-requisite(s):** FRHD*3040
**Restriction(s):** This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see departmental website for more information.

### FRHD*4400 Youth, Risk and Resilience W (3-0) [0.50]
This course examines biological, and social-contextual aspects of developmental issues evident in childhood and adolescence. The theoretical perspective of developmental psychopathology will be used to examine literatures relating to risk, resilience, developmental trajectories, classification, assessment, and intervention. Students will have a chance to critically examine many mental health issues commonly found in childhood and adolescence.

**Prerequisite(s):** 15 credits including FRHD*2110, FRHD*2280

### FRHD*4810 Thesis I U (3-0) [0.50]
Planning, developing and writing a research proposal under individual faculty supervision. Topic to be decided by the student in consultation with the supervisory faculty member before she/he may course select or register for the course. Students are advised to contact the Department of Family Relations and Applied Nutrition for further information.

**Prerequisite(s):** FRHD*3070
**Equate(s):** CSTU*4810
**Restriction(s):** Instructor consent required.

### FRHD*4910 Thesis II U (6-0) [1.00]
The student will conduct and write an undergraduate thesis under the direction of a faculty member.

**Prerequisite(s):** FRHD*4810
**Equate(s):** FRHD*4911/2
Food Science

Department of Food Science

FOOD*2100 Principles of Food Science S.W. (3-0) [0.50]
The principles involved in the processing, handling and storage of foods are introduced in this course. The relationship of science and technology to food processing is discussed. (Offered through Distance Education only.)
Restriction(s): FOOD*2150, FOOD*3090, NUTR*2150

FOOD*2100 Communication in Food Science W (3-0) [0.50]
Students will acquire basic skills in technical and business communication and be prepared to complete a variety of communication assignments in subsequent semesters. Students will learn and apply the principles of effective written and oral communication.
Restriction(s): Restricted to students in BSC.FOOD or BSC.FOOD-C majors.

FOOD*2150 Introduction to Nutritional and Food Science F (3-0) [0.50]
This interdisciplinary course provides an introduction to the Food and Nutritional Sciences from both historical and modern perspectives. Major themes are the nutritional and functional properties of food, nutrient assimilation, food preservation and safety, and the interactions between food processing, diets and health. The course is taught by the Department of Food Science. (Also listed as NUTR*2150.)
Prerequisite(s): (BIOL*1040 or BIOL*1080), CHEM*1040
Equate(s): NUTR*2150
Restriction(s): FOOD*2010, FOOD*3090. Not available to students registered in BASC.AHN major.

FOOD*2400 Introduction to Food Chemistry S (3-0) [0.50]
The chemistry and biochemistry of the major components of foods (lipsids, proteins, carbohydrates and water/ice) are introduced in this course. In addition, an overview of some of the reactions and changes in food components which occur during processing, handling and storage will be presented. This course may not be taken for credit by students in the Food Science Major. (Offered through Distance Education only.)
Prerequisite(s): CHEM*1040
Restriction(s): FOOD*3030

FOOD*2410 Introduction to Food Processing W (3-0) [0.50]
Food processes and the relationships between chemistry, microbiology, and engineering as they apply to food processing are discussed. The following topics are included: high and low temperature processes; moisture control and intermediate moisture foods; concentration and dehydration processes; and novel food processing techniques. (Offered through Distance Education only.)
Prerequisite(s): CHEM*1040, (1 of BIOL*1040, BIOL*1070, BIOL*1080, MICR*1020, MICR*2420)
Restriction(s): FOOD*3160, FOOD*3170 Not available to students registered in BASC.FOOD or BASC.FOOD-C majors.

FOOD*2420 Introduction to Food Microbiology F (3-0) [0.50]
An introduction to the major groups of microorganisms important in foods is presented in this course, including microbial spoilage of food, food-borne illness, and food fermentations. Sources of contamination during production, processing and storage of foods and evaluation of food processing conditions used to control the presence and/or growth of microorganisms in foods are discussed. (Offered through Distance Education only.)
Prerequisite(s): 1 of BIOL*1040, BIOL*1070, MICR*1020, MICR*2420
Restriction(s): FOOD*3230 Not available to students registered in BASC.FOOD or BASC.FOOD-C majors.

FOOD*2620 Food Engineering Principles W (3-2) [0.50]
Introduction to engineering principles and operations in food processing including heat transfer, fluid flow, material and energy balances, instrumentation and process control concepts.
Prerequisite(s): (BIOC*2580 or CHEM*2880), (MATH*1080 or MATH*1200)

FOOD*3030 Food Chemistry I F (3-3) [0.50]
This course covers the fundamental principles of the chemistry of foods. The course will discuss selected topics related to the chemistry (physical, organic and analytical) and physics of the major components in food materials such as lipids, proteins, carbohydrates and water.
Prerequisite(s): BIOC*2580

FOOD*3040 Food Chemistry II W (3-3) [0.50]
This course covers the fundamental principles of the chemistry of foods, as a continuation of FOOD*3030. The course will discuss selected topics related to the chemistry (physical, organic and analytical) and physics of some minor components in food materials such as pigments, flavors, enzymes and processing additives.
Prerequisite(s): FOOD*3030

FOOD*3090 Food Science and Human Nutrition F (3-2) [0.50]
This course will introduce students to the chemistry and microbiology of food and post-production food handling and processing. It will also introduce students to the role of food components in human nutrition and the interactions between diets and health. Food product development will integrate these two disciplines. Lectures will be taken simultaneously with students in FOOD*2150/NUTR*2150. Lectures will be supplemented with a series of laboratory assignments.
Prerequisite(s): (AGR*1250 or AGR*1110), (1 of BIOL*1040, BIOL*1050, BIOL*1080), CHEM*1040
Restriction(s): FOOD*2100, FOOD*2150, NUTR*2150. Restricted to students in BSC(Agr) as well as students in the Minor in Agriculture

FOOD*3160 Food Processing I F (3-3) [0.75]
This course builds on basic engineering principles to understand the operation of modern food processing plant facilities. The standard equipment used and the underlying principles that control their operation are examined for various high temperature (blanching, pasteurization, sterilization, evaporation, drying, extrusion) and ambient temperature (size reduction, homogenization, emulsification, centrifugation, filtration, extraction, irradiation) unit operations.
Prerequisite(s): ENGG*2660 or [FOOD*2620, (MICR*2030 or MICR*2420)]

FOOD*3170 Food Processing II W (3-3) [0.50]
This course looks at various low temperature food processing unit operations (e.g., refrigerated storage, freezers, freeze driers), the design and operation of ancillary food plant equipment (e.g., refrigeration, boiler, pumping, control, sanitation, water, and wastewater treatment systems) and integration of the various unit operations into a functioning food process.
Prerequisite(s): FOOD*3160

FOOD*3230 Food Microbiology F (3-3) [0.75]
Important groups of microorganisms associated with food spoilage, food fermentations, food infections and intoxications are discussed in this course. Intrinsic and extrinsic factors and their relationship to microbial growth, control of microorganisms by food processing and application of Hazard Analysis Critical Control Points (HACCP) programs are also discussed. Laboratory classes will provide experience in microbiological techniques, sampling and basic genetic engineering.
Prerequisite(s): 1 of MICR*1020, MICR*2030, MICR*2420

FOOD*3260 Industrial Microbiology W (3-3) [0.50]
The course will present microbial and technological principles of the industrial application of microorganisms followed by specific examples. Lectures will cover the basics of metabolic pathways and how these can be manipulated through selection or genetic engineering to increase productivity. The main focus of the course will be in the production of alcoholic beverages but will also include production of biomass, solvents, amino acids and organic acids of direct relevance to the food industry. The laboratory component of the course will include wine production, beer brewing and dairy fermentations. Field trips to a commercial winery and brewery will also aid the learning experience.
Prerequisite(s): 1 of MICR*1020, MICR*2020, MICR*2030, MICR*2420
Restriction(s): Students must be of legal drinking age in the Province of Ontario.

FOOD*3430 Introduction to Food Analysis F (3-0) [0.50]
An introduction to quantitative analysis of foods by chemical, physical and instrumental means. Determination of major and minor constituents of foods. (Offered through Distance Education only.)
Prerequisite(s): FOOD*2400
Restriction(s): FOOD*4120

FOOD*3700 Sensory Evaluation of Foods W (3-3) [0.50]
The principles of sensory evaluation of foods and the techniques employed are studied in the course.
Prerequisite(s): (FOOD*2150 or HTM*2700), (1 of STAT*2040, STAT*2060, STAT*2080)
Restriction(s): This is a priority access course. Registration may be restricted to students in BSCH.FOOD, BSCH.FOOD-C or BASC.AHN during certain periods.

FOOD*4070 Food Packaging F (3-0) [0.50]
Functions of packaging in food preservation systems will be examined using a review of current packaging materials, their properties, production methods and applications for specific products. Additional topics include regulatory, environmental and marketplace influences on food packaging choices.
Prerequisite(s): 8.00 credits in science or engineering
FOOD*4090 Functional Foods and Nutraceuticals W (3-0) [0.50]

The course examines the relation of functional foods and nutraceuticals (FFN) to food and drugs. The safety and efficacy of individual FFN products, and the regulatory issues that influence the development and commercialization of FFN in global markets are emphasized. The course is co-operatively taught by the Department of Human Health and Nutritional Sciences and the Department of Food Science. (Also listed as NUTR*4090.)

Prerequisite(s): NUTR*3210
Equated(s): NUTR*4090

FOOD*4110 Meat and Poultry Processing W (2-3) [0.50]

The course focuses on the principles and techniques employed by the meat industry in the production of raw and semi/fully cooked products. Lectures include a study of muscle structure and its relation to meat quality, the physical properties of meat proteins, lipids and flavour compounds important in meat processing. Practical applications of processing techniques (including producing different products in lab) packaging and merchandizing are emphasized in the laboratory. Other sources of animal proteins, such as eggs, are also covered. Emphasis is put on learning how various food science principles (e.g. emulsification, preservation, HACCP) are used to optimize meat products' quality and safety. (Offered in odd-numbered years.)

Prerequisite(s): 1 of ANSC*2340, FOOD*3090, FOOD*3160

FOOD*4120 Food Analysis F (3-4) [0.50]

In this course the quantitative analysis of foods by chemical and physical methods will be studied. Both major and minor constituents will be determined.

Prerequisite(s): 1 of CHEM*2400, CHEM*2480, FOOD*3030, which may be taken as co-requisite

FOOD*4220 Topics in Food Science S,F,W (0-2) [0.25]

Independent study of a selected topic in Food Science, involving a review and critical evaluation of the current literature. The course comprises independent library research and students are required to present a concise report in a written paper and in a seminar. Students must make arrangements with both faculty supervisor and the course co-ordinator in a prior course selection period.

Prerequisite(s): 2.50 credits at the 3000 level in Food Science
Restriction(s): Instructor consent required.

FOOD*4230 Research in Food Science S,F,W (0-2) [0.25]

This course involves independent laboratory research of a selected topic in Food Science, under the supervision of an individual faculty. The laboratory research is based on the literature review conducted in FOOD*4220. In addition, a review and critical appraisal of experimental principles will guide the design of laboratory experiments. Students are required to present a concise report in a written paper and in a seminar. Students must make arrangements with both faculty supervisor and the course co-ordinator in a prior course selection period.

Prerequisite(s): FOOD*4220
Co-requisite(s): FOOD*4220

FOOD*4260 Food Product Development I F (6-0) [0.50]

This course examines the research and development process related to new food products. Through a series of lectures and presentations students will learn the underlying theory behind food product development including idea generation, prototype development and new product manufacturing, evaluation and product marketing. Students will also gain a real world understanding of the process through their involvement and interaction with invited industry speakers. Students will work in teams with students from other disciplines to plan a food product development project.

Prerequisite(s): FOOD*2100, FOOD*3030, FOOD*3160, FOOD*3230, FOOD*3700
Restriction(s): FOOD*4100, FOOD*4700, MGMT*4020, MGMT*4030

FOOD*4270 Food Product Development II W (6-0) [0.50]

This course will compliment the Food Product Development I course by further assisting students in gaining a comprehensive understanding of the principles and process of food product development. Students will use the theory obtained from the Food Product Development I course to put into practice and gain real life experience in the planning, conducting, and communicating results as a team while developing a pre-approved food product.

Prerequisite(s): FOOD*4260
Restriction(s): MGMT*4020, MGMT*4030

FOOD*4310 Food Safety Management Systems W (3-0) [0.50]

Participants will learn and apply principles of food safety management and the systems involved. The course is organized in four modules: plant hygiene, principles of Hazard Analysis Critical Control Point (HACCP), HACCP based food safety programs in Canada, and ISO Food Safety Management Systems. (Offered through Distance Education format only)

Prerequisite(s): (FOOD*2010 or FOOD*2150), (FOOD*2410 or FOOD*3160), (FOOD*2420 or FOOD*3230)

FOOD*4400 Dairy Processing W (3-3) [0.50]

The production, processing, chemistry, microbiology and marketing of fluid milk, frozen dairy products, cheese, fermented dairy foods and butter are studied in this course. Public health aspects of pasteurization are emphasized.

Prerequisite(s): BIOC*2580, (FOOD*2150 or FOOD*3090), (MICR*2030 or MICR*2420)

FOOD*4520 Utilization of Cereal Grains for Human Food F (3-3) [0.50]

The course will cover topics related to the history of agriculture as it relates to cereal grains; basic principles behind grain breeding and its relevance to grain quality and functionality; regulations as they relate to grain quality; fractionation of cereal components and their utilization; relationship between grain structure/ composition and processing of cereal-based foods; principles of analytical tools commonly used to assess grain and product quality; science and technology as it relates to manufacturing and shelf life of common cereal-based foods from wheat, corn, rice and barley; functional and nutritional attributes of cereal grains; recent advances in cereal science and technology and the non-food uses of cereal grain components.

Prerequisite(s): BIOC*2580, (1 of BIOL*1040, BIOL*1070, BIOL*1080)
Food, Agricultural and Resource Economics

Department of Food, Agricultural and Resource Economics

FARE*1100 Intro to Environmental Economics, Law & Policy W (5-0) [1.00]
This course introduces students to a social science and policy perspective on environmental issues. The course emphasizes interactions among market exchange relationships, policy actions and legal rules and institutions. The role of scientific evidence in the resolution of environmental disputes is considered. Students participate in exercises representing different roles in environmental litigation. Guelph/Ridgetown offerings.
Restrictions: Registration in BA.EGOV, BBRM.EM, BSC.ENV, BSC.ENV.C.
Location(s): Guelph, Ridgetown

FARE*1300 Poverty, Food & Hunger W (3-0) [0.50]
This course examines the nature of poverty, food security and hunger at both the local and global levels. In so doing, it explores the nature of international development more broadly and its relevance to students studying a wide range of disciplines. It aims to provide students with the basic concepts and analytical tools required to reflect critically on international development issues in the world today and the how global poverty, food insecurity and hunger might be alleviated.
Equate(s): AGEC*1300

FARE*1400 Economics of the Agri-Food System W (4-0) [1.00]
This course introduces students to the major aspects of economics, business and resource use in the Canadian agri-food sector. Students will be exposed to the techniques used by agri-food firms to plan, invest and measure performance. Decision making under both certainty and uncertainty will be considered. Students will be shown how the market equilibrium model can be used to conduct welfare analysis and modified to account for imperfect competition and externalities.
Restrictions: AGR*2400

FARE*2140 Agrifood Markets and Policy W (3-0) [0.50]
Students will be provided with an introduction to agri-food markets, policies and institutions. Focus will be placed on: the role and function of futures markets; domestic agricultural policies; and agri-food trade policies, instruments and institutions. Economic analysis of contemporary issues in agri-food markets will be emphasized.
Prerequisite(s): AGR*2400 or FARE*1400
Co-requisite(s): ECON*2310
Equate(s): AGEC*2410

FARE*2700 Survey of Natural Resource Economics F (3-0) [0.50]
This course examines how humans, within a society, allocate natural resources - e.g., water, land, forests, and fisheries. Economic concepts and methods provide the basis for discussing and understanding both the use and misuse of natural resources.
Prerequisite(s): 1 of ECON*1050, FARE*1040, FARE*1400
Equate(s): AGEC*2700

FARE*3030 The Firm and Markets F (3-1) [0.50]
A course in microeconomic theory applied to agricultural economics research. The theory of the firm is used to analyze production and resource use in agriculture. Resource allocation issues, risk responsive decision-making, and firm strategy on vertical and horizontal integration are studied. Consumer theory is used to analyze food purchase decisions. How theoretical relationships are quantified and used in the analysis of public policy issues is emphasized.
Prerequisite(s): ECON*2310, ECON*2770, ECON*3740
Equate(s): AGEC*3030

FARE*3170 Cost-Benefit Analysis W (3-0) [0.50]
This course covers the principles and applications of cost-benefit analysis (CBA) in environmental and natural resource issues. This course will present basic concepts and principles, supplemented with case studies of projects applying CBA to illustrate the different issues arising from the use of the CBA technique. Quantitative exercises involving analysis of actual environmental and natural resource data will be used to illustrate the mechanics of established valuations methods such as contingent valuation, hedonic approach and travel cost approach.
Prerequisite(s): 1 of AGEC*2700, FARE*2700, ECON*2100
Equate(s): AGEC*3170

FARE*3250 Food, Nutrition & International Development F (3-0) [0.50]
This course aims to provide students with an economic perspective on issues in international development related to food and nutrition, exploring the ways in which economic analysis can enhance understanding of processes of international development in the contemporary world with a particular focus on food and nutrition. Students are encouraged to consider critically an economic approach to the analysis of development issues related to food and nutrition, alongside the perspectives of other social science disciplines. Throughout the course, food and nutrition as development issues are considered in the global context, especially related to trade.
Prerequisite(s): ECON*1050, (1 of AGEC*1300, FARE*1300, ECON*1100)
Equate(s): AGEC*3250

FARE*3310 Operations Management F/W (3-0) [0.50]
The decision-making role of the operations manager in transforming inputs into desired outputs is the primary focus of this course. The major issues and problems of designing, scheduling, operating, and controlling the production system will be examined.
Prerequisite(s): 1 of ACCT*2220, AGEC*2220, BUS*2220
Equate(s): AGEC*3310
Restriction(s): HTM*3120 This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

FARE*4000 Agricultural and Food Policy W (3-0) [0.50]
A critical analysis of agricultural income, marketing, adjustment and trade problems and policies in the developed countries, with particular emphasis on Canadian agricultural policies.
Prerequisite(s): 15.00 credits including ECON*2310
Equate(s): AGEC*4000

FARE*4210 World Agriculture and Economic Development F (3-0) [0.50]
The role of agriculture in economic development. Analyses of economic policies and programs in developing countries and their effect on economic development.
Prerequisite(s): 10.00 credits including ECON*1050 and ECON*1100
Equate(s): AGEC*4210

FARE*4220 Advanced Agribusiness Management W (2-3) [0.50]
This course is oriented toward practical application of theory and analytical principles to the identification, analysis and solution of an agribusiness organization/management problems. Students work on a major agribusiness project as management consultants with an owner/operator. The course builds upon students’ prior training in accounting, finance, mathematical analysis, computer applications, economics, agriculture and management.
Prerequisite(s): 1 of AGEC*2410, FARE*2410, AGEC*3320, AGR*2402, BUS*3320, ECON*2770, MGMT*3320
Equate(s): AGEC*4220

FARE*4240 Futures and Options Markets W (3-0) [0.50]
An introduction to the study of the theory and application of futures, options and other derivative instruments for marketing, hedging, investment and speculative purposes. Emphasis is placed on applications of agricultural and financial instruments to real business situations.
Prerequisite(s): 1 of AGEC*2410, AGEC*3320, AGR*2402, BUS*3320, ECON*3560, ECON*3660, ECON*3680, ENV*2070, FARE*2410, MGMT*3320, UNIV*2050
Equate(s): AGEC*4240

FARE*4290 Land Economics F (3-0) [0.50]
The economics of property rights is applied to issues in the allocation of land among agricultural, urban and other uses: contemporary trends, problems and policies in land planning, including expropriation and regulatory takings, soil erosion policy, farmland protection policy, endangered species policy and landfills and recycling. (Offered in even-numbered years.)
Prerequisite(s): 1 of AGEC*2700, FARE*2700, ECON*2310
Equate(s): AGEC*4290

Last Revision: Oct. 19, 2012
2012-2013 Undergraduate Calendar
FARE*4310 Resource Economics W (3-0) [0.50]
This course explores the role of property rights and related institutions in natural resource stewardship. Potential applications of this perspective to natural resource policy, both in Canada and internationally, are considered. Classes use a discussion based approach. The learning objective for the course is the development of critical thinking skills. The readings emphasize original sources. Students are expected to conduct original research on some aspect of the role of property rights and related institutions in the resolution of a current natural resource stewardship problem.
Prerequisite(s): 1 of AGEC*2700, FARE*2700, ECON*2310, ECON*2100
Equate(s): AGEC*4310

FARE*4360 Marketing Research W (3-0) [0.50]
A study of the marketing research function in business with emphasis on its role in providing information to assist managers in making marketing decisions.
Prerequisite(s): 0.50 credits in statistics
Equate(s): AGEC*4360

FARE*4370 Food & Agri Marketing Management F (3-0) [0.50]
The course focuses on the decision making role of the marketing manager who is responsible for formulating the strategic marketing plan for food and agricultural businesses. The theory of selecting market target(s) for the firm’s product and/or services and the development of the marketing mix (product, price, promotion, distribution) with the aid of market research is covered. Note: Students with credit for this course may not proceed to MCS*1000.
Prerequisite(s): 10.00 credits including (1 of ACCT*2230, AGEC*2230, BUS*2230, COST*2600, MCS*2600)
Equate(s): AGEC*4370, MCS*4370
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

FARE*4500 Decision Science F (3-0) [0.50]
Quantitative techniques such as classical optimization, mathematical programming, simulation and input-output models are applied to firm, interregional, industry, and international problem situations in agricultural economics, including those dealing with resources and the environment. Time and risk and uncertainty dimensions are addressed.
Prerequisite(s): ECON*2770
Equate(s): AGEC*4500

FARE*4550 Independent Studies I S,F,W (3-0) [0.50]
A project based independent study course for majors in Agricultural Economics (of the Bachelor of Arts or Bachelor of Science in Agriculture degree programs), Agribusiness (of the Bachelor of Commerce degree program), and Environmental Economics and Policy (of the Bachelor of Science in Environmental Sciences degree program).
Prerequisite(s): 10.00 credits including 1 of AGEC*2410, AGEC*2700, AGR*2401/2, FARE*2410, FARE*2700
Equate(s): AGEC*4550
Restriction(s): Permission of the instructor and Chair of the Department of Food, Agricultural and Resource Economics is required.

FARE*4560 Independent Studies II S,F,W (3-0) [0.50]
An opportunity to conduct a second independent study project for majors in Agricultural Economics (of the Bachelor of Arts or Bachelor of Science in Agriculture degree programs), Agribusiness (of the Bachelor of Commerce degree program), and Environmental Economics and Policy (of the Bachelor of Science in Environmental Sciences degree program).
Prerequisite(s): 10.00 credits including 1 of AGEC*2410, AGEC*2700, AGR*2401/2, FARE*2410, FARE*2700
Equate(s): AGEC*4560
Restriction(s): Permission of the instructor and Chair of the Department of Food, Agricultural and Resource Economics is required.
French Studies

School of Languages and Literatures

The School reserves the right to determine the appropriate level to be taken by students enrolling in language courses. To that end, students will be asked to fill out a placement questionnaire at the beginning of the course. Literary texts are, at all levels, studied in French. Students registering in these courses will be expected to have the appropriate language proficiency.

Francophone students will not normally be admitted into FREN*1200 and FREN*2030. It is recommended they start their program with FREN*2020, FREN*2060, FREN*2500, or FREN*2520 with the approval of the Faculty Advisor.

FREN*1010 Independent French Study S,F (3-0) [0.50]

This course, offered in an intensive immersion format, provides students with the opportunity to boost and strengthen skills in French, both written and oral. This course is connected to the Explore Program which is offered in francophone settings. Please see the School of Languages and Literatures for further information. A pass/fail grade will be assigned upon completion of the course.

Restrictions: Permission of French Studies, School of Languages and Literatures. Instructor consent required.

FREN*1090 Basic French: Reading S,F (3-0) [0.50]

This is a basic course in French grammar and reading for students, who have up to Ontario Grade 9 French (or equivalent) but not above. FREN*1090 cannot be counted toward a specialization in French. This course is not intended for students with native or near-native ability in French, including Francophones and French immersion students. Students with advanced French may be dropped from the course. (Offered through Distance Education only.)

FREN*1100 Basic French: Listening F,W (3-0) [0.50]

This basic course in French grammar will emphasize listening skills for students, who have up to Grade 10 French (or equivalent) but not above. FREN*1100 cannot be counted toward a specialization in French. This course is not intended for students with native or near-native ability in French, including Francophones and French immersion students. Students with advanced French may be dropped from the course. (Offered through Distance Education only.)

FREN*1120 Basic French: Writing W (3-0) [0.50]

This basic course in French grammar will emphasize writing skills for students, who have up to Grade 11 French (or equivalent) but not above. FREN*1120 cannot be counted toward a specialization in French. This course is not intended for students with native or near-native ability in French, including Francophones and French immersion students. Students with advanced French may be dropped from the course. (Offered through Distance Education only.)

FREN*1150 Elementary French F,W (3-0) [0.50]

This is a review course in French grammar, oral and written skills, for students who have Ontario Grade 11 French or equivalent but not above. FREN*1150 cannot be counted toward a specialization in French.

Equates: FREN*1110

Restrictions: Students with native or near-native ability in French, including Francophones and French immersion students, will not be admitted to this course.

FREN*1200 French Language I F,W (3-1) [0.50]

A first year, university-level course for students graduating with a high-school background in core French. Students will practise written and oral French.

Prerequisite(s): 1 of FREN*1150, Grade 12U French or permission of the School

Restrictions: Students with native or near-native ability in French, including Francophones and French immersion students, will not be admitted to this course.

FREN*2020 French: Literature and Society F,W (3-0) [0.50]

This course provides an historical introduction to French life and thought as seen through literature and art. (Also offered through Distance Education format.)

Prerequisite(s): FREN*1200 or FREN*2030

FREN*2030 French Language II F,W (3-1) [0.50]

This is a continuation of French Language I with further practice in written and oral French, grammar, vocabulary acquisition, translation, laboratory exercises and discussion groups.

Prerequisite(s): 1 of FREN*1200, Grade 12U, French Immersion or permission of the School.

Restrictions: Students with native ability in French will not be admitted to this course.

FREN*2060 Quebec: Literature and Society F,W (3-0) [0.50]

This course provides an historical introduction to Quebec life and thought from New France to the present as seen through literature and art.

Prerequisite(s): FREN*1200 or FREN*2030

FREN*2500 French Translation I S,W (3-0) [0.50]

An introduction to the art and techniques of French-English translation. (Also offered through Distance Education format.)

Prerequisite(s): FREN*2030

FREN*2520 French Composition I F (3-0) [0.50]

Essay writing and textual analysis.

Prerequisite(s): FREN*2030

FREN*2540 Spoken French: Theory and Practice W (3-0) [0.50]

This course focuses on the differences between written and spoken French and is designed to help students function efficiently in an oral French context (comprehension and expression).

Prerequisite(s): FREN*2030

Restrictions: Students with native or near-native ability in French, including Francophones and French immersion students will not be admitted to this course.

FREN*3000 Romanticism & Realism in France W (3-0) [0.50]

This course is a seminar on the 19th-century novel emphasizing themes and ideas which have contributed to contemporary literature and thought.

Prerequisite(s): FREN*2020

FREN*3010 Twentieth-Century French Novel W (3-0) [0.50]

This course explores a changing world as perceived by 20th-century writers in France. From Gide to post-modernism, the impact of renewed scientific perspectives on literature, and the questioning of modes of representation, signs and society will be covered. (Offered in even-numbered years.)

Prerequisite(s): FREN*2020

FREN*3080 Pre-Revolution French Literature W (3-0) [0.50]

This course introduces students to the intellectual history of France, its society and institutions, through major works of literature published before the French Revolution.

Prerequisite(s): FREN*2020

Restriction(s): FREN*3070 , FREN*3240 , FREN*4050

FREN*3120 Contemporary Francophone Theatre W (3-0) [0.50]

This course offers a selective study of recent play-scripts written in French. Students are advised to consult the web description for the particular focus of the current offering. (Offered in odd-numbered years.)

Prerequisite(s): FREN*2020, FREN*2060

Restriction(s): FREN*3020 , FREN*3210

FREN*3200 Quebec Novel F (3-0) [0.50]

This course is a survey of representative Quebec novels from World War II to the Quiet Revolution. A seminar and lecture course.

Prerequisite(s): FREN*2060

FREN*3220 The Structure of French F (3-0) [0.50]

Elements of the sound system, grammar and vocabulary of contemporary French.

Prerequisite(s): FREN*2030

FREN*3500 French Translation II F (3-0) [0.50]

This course introduces students to an analysis of the similarities and contrasts between French and English grammar. As well, the course introduces students to analysis of various literary styles, and to their application in written translation.

Prerequisite(s): FREN*2500

FREN*3520 French Composition II W (3-0) [0.50]

This is a continuation of FREN*2520 with special emphasis on stylistics.

Prerequisite(s): FREN*2520

FREN*3530 Business French F (3-0) [0.50]

This course is a detailed study of the French language as it is currently used in administration and business, both in France and Quebec. It will cover areas such as advertising, administrative reports, employment, communication and levels of language. (Offered in odd-numbered years.)

Prerequisite(s): FREN*2030
FREN*3610 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
Thematic courses relating to the literature, arts, and society of metropolitan France and of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.
Prerequisite(s): 1 of FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3620 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
Thematic courses relating to the literature, arts, and society of metropolitan France and of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.
Prerequisite(s): 1 of FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3630 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
Thematic courses relating to the literature, arts, and society of metropolitan France and of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.
Prerequisite(s): 1 of FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3640 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
Thematic courses relating to the literature, arts, and society of metropolitan France and of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.
Prerequisite(s): 1 of FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3650 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
Thematic courses relating to the literature, arts, and society of metropolitan France and of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.
Prerequisite(s): 1 of FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3660 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
Thematic courses relating to the literature, arts, and society of metropolitan France and of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.
Prerequisite(s): 1 of FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3670 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
Thematic courses relating to the literature, arts, and society of metropolitan France and of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.
Prerequisite(s): 1 of FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3680 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
Thematic courses relating to the literature, arts, and society of metropolitan France and of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.
Prerequisite(s): 1 of FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3690 Studies in French Literature and Culture in Nice F,W (3-0) [0.50]
Thematic courses relating to the literature, arts, and society of metropolitan France and of the Francophone world. Options may include other languages, literatures, and other disciplines in the arts and social sciences. For Nice students only.
Prerequisite(s): 1 of FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*4220 Recent Quebec Writing W (3-0) [0.50]
This course analyses representative contemporary Quebec novels, short stories and poems from aesthetic, thematic and ideological points of view. (Offered in even-numbered years.)
Prerequisite(s): FREN*2030, FREN*2060
Restriction(s): FREN*3220

FREN*4290 Post-Colonial Francophone Fiction F (3-0) [0.50]
This course is an advanced introduction to selected works of 20th-century Francophone writers from Maghreb, Black Africa and the Caribbean. (Offered in even-numbered years.)
Prerequisite(s): FREN*2020, FREN*2030
Restriction(s): FREN*3290

FREN*4300 Symbolist and Surrealist Poetry F (3-0) [0.50]
The French Symbolists of the 19th century and the 20th century Surrealist poets’ vision of the world will be discussed. (Offered in even-numbered years.)
Prerequisite(s): FREN*2020, FREN*2030, FREN*3520

FREN*4500 The French Language in Canada W (3-0) [0.50]
This course is a descriptive, historical and socio-linguistic study of the varieties of French spoken in Canada, with particular emphasis on Quebec. (Offered in odd-numbered years.)
Prerequisite(s): FREN*3230

FREN*4600 Honours Seminar in French and Quebecois Studies F (3-0) [0.50]
This course is a seminar on literary genres, movements and themes, or on the French language. (Offered in odd-numbered years.)
Prerequisite(s): FREN*2020, FREN*2060, FREN*3520

FREN*4610 Honours Seminar in French and Quebecois Studies F (3-0) [0.50]
Seminar on literary genres, movements and themes. (Offered in even-numbered years.)
Prerequisite(s): FREN*2020, FREN*2060, FREN*3520

FREN*4740 Research Paper in French Studies I S,F,W (3-0) [0.50]
A research paper in French on an approved topic in French literature or language will be required. Individual attention will be given to methods of research and techniques of writing. This course is intended to serve as an introduction to future research at the M.A. and Ph.D. levels.
Prerequisite(s): FREN*2020, FREN*2060, FREN*3520
Restriction(s): 70% average in all French Studies course attempts is required, although at least 75% is recommended. Instructor consent required.

FREN*4750 Creative Writing in French S,F,W (3-0) [0.50]
The development and revision of a major work of creative writing in French (fiction, poetry, or drama), under the supervision of a faculty member will be required.
Prerequisite(s): (FREN*2020 or FREN*2060), FREN*3520, FREN*4740, 70% average in all French Studies course attempts is required, although at least 75% is recommended.
Restriction(s): 70% average in all French Studies course attempts is required, although at least 75% is recommended. Instructor consent required.

FREN*4770 Research Paper in French Studies II S,F,W (3-0) [0.50]
A research paper in French on an approved topic in French literature or language will be required. Individual attention will be given to methods of research and techniques of writing. This course is intended to serve as an introduction to future research at the M.A. and Ph.D. levels.
Prerequisite(s): FREN*2020, FREN*2030, FREN*2060, FREN*3520, FREN*3500, FREN*4740
Restriction(s): 70% average in all French Studies course attempts is required, although at least 75% is recommended. Instructor consent required.

FREN*4900 Applied Linguistics: French Studies W (3-0) [0.50]
This is a course specially designed for future teachers of French, in which the principles of linguistics are applied to the teaching of French. (Offered in even-numbered years.)
Prerequisite(s): FREN*2030, FREN*3230, LING*1000
GEOG*1200 Society and Space F,W (3-0) [0.50]
This course introduces key concepts in contemporary Human Geography. The course applies a spatial perspective in exploring a wide ranging series of processes and issues in society. Topics include population growth and migration, models and challenges of urban and rural development, interpretation of cultural landscapes and selected issues relating to social welfare. (Also offered through Distance Education format.)

GEOG*1220 Human Impact on the Environment F,W (3-0) [0.50]
A global overview of the changing relationships among society, technology and the environment. This course emphasizes the major stages of human use of resources and the environmental consequences of global changes in production systems. It contrasts Third and First World experiences, focusing on core-periphery relationships. (Also offered through Distance Education format.)

GEOG*1300 Introduction to the Biophysical Environment F,W (3-0) [0.50]
An introduction to Physical Geography. The principles and processes governing climate-landform-soil-vegetation systems and interrelationships. Natural and human-induced changes to environmental systems. Laboratories will address techniques of measurement, representation and analysis of environmental systems through maps, air photographs, remote sensing and field observations. (Also offered through Distance Education format.)

GEOG*1350 Earth: Hazards and Global Change F,W (3-0) [0.50]
An introduction to the principles and processes governing climate-landform-soil-vegetation systems. Emphasis is placed on the interrelationships between human and environmental systems through the examination of natural hazards and global climate change.

GEOG*2000 Geomorphology F (3-2) [0.50]
This is an introduction to geomorphology emphasizing weathering, slope and fluvial processes within drainage basins, and glacial and periglacial processes. Field and laboratory techniques will be applied.

GEOG*2030 Environment and Development F (3-0) [0.50]
This course examines the changing relations between society and ecology by focusing on relations of power, including intra- and inter-state structures and processes. Environmental movements, conflicts, identities and values are considered along with localization and globalization. Particular attention is paid to ecological and development processes and strategies in the developing world.

GEOG*2110 Climate and the Biophysical Environment W (3-1) [0.50]
The interrelationships between the atmosphere, lithosphere, hydrosphere, and biosphere to produce distinct physical landscapes (climates, soils, vegetation). Emphasis on the role of climate and the flows of energy, water, and biogeochemicals.

GEOG*2210 Environment and Resources W (3-0) [0.50]
This course examines the interrelationships between people and biophysical processes. The main themes are: 1) characteristics of natural resources and processes through which they are developed and used and 2) human response to environmental conditions, including natural hazards and global change. Contemporary Canadian case studies will be presented at the regional and national scales. (Also offered through Distance Education format.)

GEOG*2230 Economic Geography F (3-0) [0.50]
An introduction to the spatial distribution of economic activity. The course examines patterns, processes and problems in extractive activities, manufacturing, marketing and the service sector, including the transportation of commodities and people. The principles of economic location are applied to regional economic analysis and development.

GEOG*2260 Applied Human Geography W (3-2) [0.50]
This course introduces students to the geographical research process, guiding them through key methodological issues and techniques in human geography. The lab component of the course focuses on data collection using secondary documents, surveys, interviews, and participant observation, as well as both quantitative and qualitative analysis techniques. Lab assignments and class illustrations draw on a range of topics in human geography.

GEOG*2420 The Earth From Space F (2-3) [0.50]
This course provides an introduction to the principles and techniques of air photo and satellite image interpretation. Topics include stereoscopic viewing, parallax, flightline planning, and mapping from air photos. Lab exercises focus on specific applications in natural habitats and in rural and urban settings.

GEOG*2460 Analysis in Geography F (3-2) [0.50]
The application of modern techniques to geographic study. The interpretation of geographic phenomena by objective methods. Major honours students in Geography must complete this course by the end of semester 4.

GEOG*2480 Mapping and GIS F,W (3-2) [0.50]
An introduction to the theory and techniques of manipulating and displaying spatial data in a GIS (Geographic Information System). Mapping concepts such as scale, co-ordinate systems, map projections, symbolization and vector data encoding are introduced. Major honours students in Geography must complete this course by the end of semester 4.

GEOG*2510 Canada: A Regional Synthesis W (3-0) [0.50]
This course is designed to provide a better understanding of the nature and basis of Canadian regionalism. The first section of the course stresses the biophysical base and the inequality of the natural resource endowment. The historical geographic approach and the systematic overviews of contemporary Canada stress respectively the development and nature of the Canadian space-economy. The final section on regions, regionalism and nationalism provides an overview of the heartland-hinterland dichotomy and centrifugal and centripetal forces operative in the nation.

GEOG*3000 Fluvial Processes (3-2) [0.50]
This course examines processes and landforms associated with rivers. Particular emphasis is placed on the interaction between water and sediment movement and channel morphology. Case studies of human impact on river systems are presented.

GEOG*3020 Global Environmental Change F (3-1) [0.50]
Major global environmental issues examined include climate change, deforestation, desertification and global fisheries. This course is interdisciplinary, exploring the interactions of bio-physical processes with human socio-economic dynamics, including policy initiatives. Particular attention is given to global climate change, its causes, its nature and extent, its implications for ecosystems and societies, and its governance implications. (Also offered through Distance Education format.)

GEOG*3050 Development and the City W (3-0) [0.50]
This course examines different theoretical and policy perspectives of urbanization and urban development, as well as social, economic and environmental living conditions in cities of the global "south". It refers to concrete examples of cities in their national and international context, paying due attention to diversity and the fluidity of urban-rural boundaries. Specific urban development issues, including migration, housing, employment, health and environment are also addressed.

GEOG*3090 Gender and Environment F (3-0) [0.50]
This course introduces feminist scholarship and perspectives to explore men and women's experiences with both the natural and built environment. The course draws on case studies from developing and developed countries to demonstrate the importance of gender difference in understanding human interactions with the environment. Students will observe gendered use, access, knowledge, responsibility and control in rural and urban landscapes.

GEOG*3110 Biotic and Natural Resources F (2-2) [0.50]
This course focuses on the ecological basis for resource management, evaluates a number of current ecological theories and addresses their implications for resource management.

Note: Several courses in Geography are listed as acceptable for the Natural and Mathematical Science B.A. Distribution Requirements or as Non-Science Electives for B.Sc. students.
GEOG*3210 Management of the Biophysical Environment F (3-0) [0.50]
This course provides an examination of resource management, focusing on public and private decision-making processes and considers techniques for evaluating resources, including Environmental Impact Assessment (EIA) and risk analysis. Emphasis is on the economic, social and environmental implications of resource development and use. Contemporary Canadian case studies will be presented at appropriate scales. (Also offered through Distance Education format.)
Prerequisite(s): 7.50 credits including (ENVS*2150 or GEOG*2210)

GEOG*3320 Food Systems: Issues in Security and Sustainability F (3-0) [0.50]
Many argue that current food systems are unsustainable and will be unable to provide adequate and appropriate nutrition for the global society in the 21st century. This course will explore this issue by taking a global and historic perspective to understand the structure and functioning of agriculture and food systems. We will pay particular attention to the interaction of farms with social, economic, institutional and environmental forces that combine to shape patterns of agricultural activity. In particular, we will explore ways of assessing the extent to which different kinds of food systems are “sustainable” as well as assess how resilient and robust these food systems are to environmental problems (such as climate change) and economic upheaval.
Prerequisite(s): 7.50 credits

GEOG*3420 Remote Sensing of the Environment W (2-3) [0.50]
This course explores the nature and acquisition of remotely sensed imagery, and provides students with the technical expertise required to process and interpret this type of digital data. The application of digital image processing techniques to analyzing geographic problems is stressed, and its integration in a Geographic Information Systems (GIS) environmental is demonstrated.
Prerequisite(s): 10.00 credits including GEOG*1300

GEOG*3480 GIS and Spatial Analysis F/W (2-3) [0.50]
This course focuses on the use of raster and vector-based geographic information systems to analyze spatial data. Topics include map digitizing, data query and overlay, spatial interpolation, multi-criteria evaluation, least cost pathway determination and digital elevation models. This course requires some familiarity with numerical methods and computer operations.
Prerequisite(s): 10.00 credits, including GEOG*2480

GEOG*3490 Tourism and Environment W (3-0) [0.50]
An integrative perspective on tourism, addressing diverse interactions between people and tourist resources. Emphasis is on experiences derived from the use of resources, the environmental, economic and cultural impacts of tourism, and approaches to managing these impacts. (Also offered through Distance Education format.)
Prerequisite(s): 7.50 credits

GEOG*3600 Geography of a Selected Region U (3-0) [0.50]
The study of an area which will include topics in physical, economic, social and historical aspects of geography.
Prerequisite(s): 7.50 credits

GEOG*3610 Environmental Hydrology W (3-1) [0.50]
An introductory course in hydrology, the study of water in the environment. Emphasis is placed on understanding and modeling the hydrologic cycle. Topics include hydrologic processes, water resources, and case studies of freshwater systems.
Prerequisite(s): 7.50 credits, (GEOG*2460 or STAT*2040), (1 of GEOG*2000, GEOG*2110, or another 2000 level earth science or engineering science course is recommended)

GEOG*4110 Environmental Systems Analysis F (3-6) [1.00]
An integrated systems approach to solving issues of environmental evaluation, impact and development. Focus will be on the physical components of the environment.
Prerequisite(s): GEOG*3110 or GEOG*3610

GEOG*4150 Sedimentary Processes W (3-2) [0.50]
This course examines the basic properties and flow characteristics of fluids that control the entrainment and transport of sediment by air and water. Bedform development in fluvial, coastal and aeolian environments are also discussed in relation to fluid flow mechanics. Lectures are complemented by weekly labs using the wind tunnel, flame and wave tank.
Prerequisite(s): GEOG*3000

GEOG*4200 Seminar in Urban Geography W (3-0) [0.50]
Many of the traditional features of cities are changing in light of powerful forces of globalization. The course examines spatial patterns and processes of economic restructuring, social dynamics and political change in Canadian and non-Canadian cities. Students discuss and interpret evolving urban forms from a geographical perspective.
Prerequisite(s): GEOG*2260, GEOG*3050 recommended
Restriction(s): GEOG*3480

GEOG*4210 Environmental Governance F (3-1) [0.50]
This course provides an opportunity for advanced studies in resource and environmental governance. A central aim is developing an understanding of principles, practices and emerging issues relating to environmental governance.
Prerequisite(s): GEOG*3210

GEOG*4220 Local Environmental Management W (3-0) [0.50]
This course explores local environmental management from two perspectives: state-driven (where local government agencies or forums created by governments are used) and non-state driven (where local actors come together in new governance arrangements to undertake environmental management). Through comparing and contrasting these broad perspectives in an experiential learning setting, the course builds understanding of a key trend in environmental governance.
Prerequisite(s): GEOG*3210

GEOG*4230 Environmental Impact Assessment W (3-0) [0.50]
This course examines environmental impact assessment (EIA) from philosophical, methodological and institutional perspectives. The evolution of EIA in Canada will be the focus. Case studies illustrating major issues and applications will be presented at a variety of geographical scales. The preparation and presentation of a research project is an integral component.
Prerequisite(s): GEOG*3210
Equate(s): ENVS*4220

GEOG*4250 Coastal Processes F (3-2) [0.50]
This course examines the geomorphic processes and associated landforms found in the coastal zone. Initially the focus is on developing an understanding of the major controls on coastal erosion and sediment transport, including waves, nearshore currents and water level fluctuations. This is followed by the study of features and processes in selected coastal environments such as beaches, barrier islands and spits, coastal sand dunes and bluff coasts. In each case applications to problems of coastal management are introduced.
Prerequisite(s): 1 of GEOG*3000, GEOG*3610, GEOG*3620

GEOG*4390 Seminar in Rural Geography F (3-0) [0.50]
This course surveys themes and issues in contemporary rural geography. Specific attention is given to the processes of restructuring and change in rural systems in Canada and other developed economies. Themes include transformations in the use of rural land, the new rural economy, restructurings in service delivery, and the sustainability of rural communities and systems.
Prerequisite(s): GEOG*2260, GEOG*3320

GEOG*4480 Applied Geographic Information Systems W (3-6) [1.00]
This course adopts a project-oriented approach to the application of Geographic Information Systems (GIS) in spatial analysis. Students will have the opportunity to design and implement a research project using GIS techniques to investigate a problem in any area of geography.
Prerequisite(s): GEOG*3480

GEOG*4690 Geography Field Research F (3-6) [1.00]
This course provides an opportunity for senior students to develop skills in the design, implementation and presentation of a field research project. The course involves a field trip of about 10-14 days, either in Canada or abroad. This component of the course takes place between the end of the summer session and the start of classes in the fall semester. Classes during the fall semester focus on the analysis and interpretation of data and incorporate student research seminars. Information on the location and cost of the field research course is available from the department in the winter semester prior to each fall offering.
Prerequisite(s): 12.50 credits
Restriction(s): Restricted to majors in Earth Surface Science, Environmental Geoscience and Geomatics, Environmental Governance, Geography and B.Sc.(Env.) with an overall average of at least 70% at the time of registration. Instructor consent required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Restrictions</th>
<th>Last Revision: Oct. 19, 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*4880</td>
<td>Contemporary Geographic Thought W (3-0) [0.50]</td>
<td></td>
<td>A critical overview of the evolution and current status of Geography. Particular emphasis will be given to the variety of approaches and convergence and divergence within the discipline. The interaction between human and physical geographers and their approaches to issues and the subject will be analyzed.</td>
<td>Restricted to major honours students in Geography at semester 6 or above.</td>
<td>2012-2013 Undergraduate Calendar</td>
</tr>
<tr>
<td>GEOG*4990</td>
<td>Independent Study in Geography U (0-3) [0.50]</td>
<td></td>
<td>The independent study option is designed to provide senior undergraduate students with an opportunity to pursue library or field research under faculty supervision and to prepare a research report. Formal agreement between the student and the faculty supervisor is required, as is approval of the department chair.</td>
<td>Restricted to majors in Earth Surface Science, Environmental Geoscience and Geomatics, Environmental Governance, Geography and B.Sc.(Env.) with an overall average of at least 70% at the time of registration. Instructor consent required.</td>
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</tbody>
</table>
## German Studies

**School of Languages and Literatures**

**NOTE:** The School reserves the right to determine the appropriate level to be taken by students enrolling in language courses.

### GER**M**1100 Introductory German I F,W (2-2) [0.50]

A beginning course in German. Students will attain a basic knowledge of the language and practice all four language skills (listening, speaking, reading and writing). They will also learn about aspects of German culture. This course may not normally be taken by anyone who has Grade 12U German.

**Prerequisite(s):** GER**M**1100

### GER**M**1110 Introductory German II F,W (3-1) [0.50]

This course provides for an intensification of the four language skills introduced in GER**M**1100. Students will attain a grasp of essential grammatical concepts and the ability to converse comfortably in everyday situations. This course may not normally be taken by anyone who has Grade 12U German.

**Prerequisite(s):** GER**M**1100

### GER**M**2050 Introduction to Literature W (2-1) [0.50]

This course introduces students to the scholarly study of literature, including critical commentaries. The course focuses on the notion of a European literary tradition in which works by German and Italian authors are key. The lectures are in English, but students taking the course under this code will read texts originally written in German in the original language and Italian works in English translation. Students will submit some work in German.

**Prerequisite(s):** GER**M**2490

**Restriction(s):** ITAL*2050

### GER**M**2400 Contemporary Germany W (3-0) [0.50]

A multimedia approach to contemporary German culture, 20th-century history and recent political events. Emphasis on oral work in German.

**Prerequisite(s):** GER**M**1110 or equivalent

### GER**M**2490 Intermediate German I F (3-1) [0.50]

This course will include systematic oral and written practice, discussion of contemporary texts, and comprehensive grammar review.

**Prerequisite(s):** Grade 12U German or GER**M**1110

### GER**M**2500 Intermediate German II W (3-1) [0.50]

This course provides for further development of conversational and writing skills and serves as an introduction to more complex grammar.

**Prerequisite(s):** GER**M**2490

### GER**M**2560 Themes in German Literature/Culture F (3-0) [0.50]

This course provides students with further skills for interpreting literary texts through an exploration of themes that have shaped German literature and culture.

**Prerequisite(s):** GER**M**2050 or permission of the instructor

### GER**M**3020 Myth and Fairy Tales in Germany F (1-0) [0.50]

The course explores the role of mythology, fairy tales and legends in German literature and culture of the late 18th and 19th centuries. Topics may include the formation of a national identity, the allegorical fairy tale and its role in Romanticism, women and the fairy tale, the fairy tale and the socialization of children (incl. Disney), romantic mythology in music, art and literature. Authors may include Goethe, Brothers Grimm, ETA Hoffman, Wagner. Lectures and texts are English. Students registered in GER**M**3020 will meet a fourth hour per week to discuss texts in German. This course is offered in conjunction with HUMN*3020. (Offered in even-numbered years.)

**Prerequisite(s):** (GER**M**2050 or GER**M**2590), GER**M**2560

**Co-requisite(s):** HUMN*3020

**Restriction(s):** GER**M**3440, HUMN*3440

### GER**M**3470 Holocaust & WWII in German Lit. & Film F (1-0) [0.50]

This course focuses on texts and films pertaining to World War II and the Holocaust, the development of the thoughts and the language of genocide, and the representation of the Holocaust in literature and films. The objective is to gain an understanding of the ideas and emotions underlying ethnocentrism and anti-Semitism, and to consider artistic responses to the experience of persecution and mass-murder. Lectures and discussions are in English. Students registered in GER**M**3470 will meet a fourth hour per week to discuss texts in German. This course is offered in conjunction with HUMN*3470 (Offered in odd-numbered years)

**Prerequisite(s):** GER**M**2050, GER**M**2560

**Co-requisite(s):** HUMN*3470

### GER**M**3500 Advanced German I F (3-0) [0.50]

A study of advanced German grammar as well as aspects of structure and style of the German language, will be covered through oral presentations and discussions with a special emphasis on essay writing. Translation into idiomatic German and English are also emphasized.

**Prerequisite(s):** GER**M**2500

### GER**M**3510 Advanced German II W (3-0) [0.50]

This course provides a continued study of advanced German grammar, as well as aspects of structure and style of the German language, through oral presentations and discussions with a special emphasis on essay writing.

**Prerequisite(s):** GER**M**3500

**Restriction(s):** GER**M**3530

### GER**M**3600 Directed Readings in German Studies U (3-0) [0.50]

A reading course in German literature designed according to the program and interest of the individual student.

**Restriction(s):** Instructor consent required.

### GER**M**4940 Research Paper in German Studies U (3-0) [0.50]

A reading course on some approved topic in German language or literature, leading to an end-of-term research paper.

**Restriction(s):** Instructor consent required.
Greek

**NOTES:** Literary texts are, at all levels, studied in the original language. Students registering in these courses will be expected to have the appropriate knowledge. Higher level courses in Greek are available as language modules attached to selected Classical Studies courses. (See Classical Studies course descriptions.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits (Lecture-Tutorial)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREK*1100</td>
<td>Preliminary Greek I</td>
<td>F (3-0) [0.50]</td>
<td>A beginning course in Greek, providing the fundamentals of structure and idiom. (This course may not be taken by anyone who has Grade 11 Greek).</td>
</tr>
</tbody>
</table>
| GREK*1110   | Preliminary Greek II | W (3-0) [0.50] | A continuation of GREK*1100.  
**Prerequisite(s):** GREK*1100 or Grade 12 Greek |
| GREK*2020   | Greek Language and Culture | F (3-0) [0.50] | Consolidation of fundamental morphology and syntax acquired in GREK*1100 and GREK*1110. Intensive reading in texts that also illuminate aspects of Greek culture.  
**Prerequisite(s):** GREK*1110 |
HISP*1100 Introductory Spanish I FW (3-1) [0.50]
This course introduces students to the basics of spoken and written Spanish through the study of grammar and vocabulary. The course is for students with no previous studies in Spanish. (Also offered through Distance Education format).
Prerequisite(s): HISP*1100 or SPAN*1100
Equates: SPAN*1100

HISP*1110 Introductory Spanish II F,W (3-1) [0.50]
This is a continuation of HISP*1100. Students will develop and apply increased reading, writing, listening and oral skills in Spanish through the study of new vocabulary and grammatical structures. (Also offered through Distance Education format).
Prerequisite(s): HISP*1100 or SPAN*1100
Equates: SPAN*1110

HISP*2000 Intermediate Spanish I FW (3-1) [0.50]
This course is for students who have completed Spanish at first-year university or grade 12 level, and for heritage Spanish speakers. The course examines grammatical structures in greater depth. It focuses on vocabulary acquisition, oral and written practice, and exposes students to topics in culture.
Prerequisite(s): 1 of 4U Spanish, HISP*1110, SPAN*1110, 4U Spanish
Equates: SPAN*2000

HISP*2010 Intermediate Spanish II F,W (3-1) [0.50]
Continuing with the textbook used in HISP*2000, students will improve skills in reading, writing and conversation through further study of grammar. The course will encourage students to formulate and support opinions on cultural content.
Prerequisite(s): HISP*2000 or SPAN*2000
Equates: SPAN*2010

HISP*2040 Culture of Spain F (3-0) [0.50]
An examination of the historical and cultural events that provided the background for the development of modern Spain, as well as a visual survey of Spanish culture.
Prerequisite(s): 1 of HISP*1110, SPAN*1110, 4U Spanish
Equates: SPAN*2040

HISP*2990 Hispanic Literary Studies W (3-0) [0.50]
An introduction to literary studies in Spanish. The course focuses on critical terminology and methods through a selection of prose, poetry and drama from Spain and Spanish America.
Prerequisite(s): 1 of HISP*1110, SPAN*1110, 4U Spanish
Equates: SPAN*2990

HISP*3080 Spanish American Culture W (3-0) [0.50]
A survey through selected readings, class discussion and audio-visual materials of the Spanish American countries, their histories, society, institutions and culture.
Prerequisite(s): 1 of HISP*2000, SPAN*1110, 4U Spanish
Equates: SPAN*3080

HISP*3210 Topics in Hispanic Studies F,W (3-0) [0.50]
This course, taught in Spanish, with texts in the original language, provides an intensive study of a specific aspect of Hispanic Studies.
Prerequisite(s): HISP*3220 or HISP*3230

HISP*3220 Literature and Arts I: Spain Pre-1936 FW (3-0) [0.50]
This course will be taught in Spanish, with texts studied in the original language, and provides a detailed examination of a theme, period or movement in the literature and/or arts of Spain prior to the Spanish Civil War. Topics explored in given years may include Golden Age Drama, the 19th-century novel or early 20th-century avant garde movements.
Prerequisite(s): HISP*2990 or SPAN*2990

HISP*3230 Literature and Arts II: Latin America Pre-1950 W (3-0) [0.50]
This course provides a detailed examination of a theme, period or movement in the literature and/or arts of Latin America before 1950. Topics explored may include the regionalist novel, modernista poetry or colonial literature. The course will be taught in Spanish, with texts studied in the original language.
Prerequisite(s): HISP*2990 or SPAN*2990

HISP*3240 Topics in Hispanic Linguistics W (3-0) [0.50]
This course offers an introduction to the study of variation in Latin American Spanish in its social context. Topics include linguistic variation, linguistic change, bilingualism, diglossia, language attitude, code-switching, language planning and conversation analysis.
Prerequisite(s): (HISP*1110 or SPAN*1110), LNG*1000

HISP*3500 Advanced Spanish I F (3-0) [0.50]
An advanced language course that focuses on the refinement of students' written and oral communication skills in Spanish.
Prerequisite(s): HISP*2010 or SPAN*2010
Equates: SPAN*3500

HISP*3530 Business Spanish W (3-0) [0.50]
A detailed study of the Spanish language as it is currently used in administration and business. It will cover areas such as administrative correspondence, reports, employment, business communication and advertising.
Prerequisite(s): HISP*3500 or SPAN*3500
Equates: SPAN*3530

HISP*3800 Directed Readings in Hispanic Studies U (3-4) [0.50]
A reading course in Spanish or Spanish American literature designed according to the reading interests and the interests of the individual student. Normally, students will not be permitted to take more than two courses in the Directed Readings sequence.
Prerequisite(s): 1.00 credits from the following: HISP*3220, HISP*3230, SPAN*3080, SPAN*3110, SPAN*3120, SPAN*3130, SPAN*3160, SPAN*3170, SPAN*3180, SPAN*3300, SPAN*3320
Equates: SPAN*3800
Restriction(s): Instructor consent required.

HISP*3810 Directed Readings in Hispanic Studies U (3-4) [0.50]
A reading course in Spanish or Spanish American literature designed according to the previous studies and the interests of the individual student. Normally, students will not be permitted to take more than two courses in the Directed Readings sequence.
Prerequisite(s): 1.00 credits from the following: HISP*3220, HISP*3230, SPAN*3080, SPAN*3110, SPAN*3120, SPAN*3130, SPAN*3160, SPAN*3170, SPAN*3180, SPAN*3300, SPAN*3320
Equates: SPAN*3810
Restriction(s): Instructor consent required.

HISP*4100 Seminar in Hispanic Studies F,W (3-0) [1.00]
This seminar is taught in Spanish, with texts studied in the original language. It provides an opportunity for students to study and research a specific aspect of Hispanic Studies.
Prerequisite(s): HISP*4410 or HISP*4420

HISP*4410 Senior Seminar on Latin American Post-1950 F (3-0) [1.00]
This seminar is taught in Spanish, with texts studied in the original language, and will explore in detail a major movement, period or theme in post-1950 Latin American literature or culture. Students who have completed this course previously should register in HISP*4100.
Prerequisite(s): HISP*2990 or SPAN*2990

HISP*4420 Senior Seminar on Spain or Africa Post-1936 W (3-0) [1.00]
This seminar is taught in Spanish, with readings from texts in the original language. It addresses a major issue, movement or period in the post-1936 literature and culture of Spain, or in some years, of the Spanish-speaking regions of Africa.
Prerequisite(s): HISP*2990 or SPAN*2990

HISP*4500 Spanish Translation I F (3-0) [0.50]
This course introduces students to the theory and practice of translation by applying current theoretical principles and linguistic precision to the process of translation from Spanish to English. Students work with a variety of texts from fields including journalism, business, science and literature.
Prerequisite(s): HISP*3530 or SPAN*3530
Equates: SPAN*4500

HISP*4520 Spanish Translation II W (3-0) [0.50]
This course builds on the theoretical foundations studied in HISP*4500 or SPAN*4500, and enhances translation skills. Working on translations from English to Spanish, students will perfect expression in Spanish through extensive vocabulary enrichment and grammatical analysis.
Prerequisite(s): HISP*4500 or SPAN*4500
Equates: SPAN*4520

HISP*4840 Research Paper in Hispanic Studies U (3-0) [1.00]
Students will write an intensive research paper in Spanish on a topic relating to a literary or linguistic subject in Hispanic Studies. This paper will be completed within one semester and students will be assigned to a faculty supervisor who will oversee the project.
Prerequisite(s): HISP*3220 or HISP*3230
Equates: SPAN*4840
Restriction(s): Instructor Consent Required.
History

Department of History

Students wishing to take a 3000 level course must have pass standing in at least 7.50 university credits.

Students wishing to take a 4000 level course must have pass standing in at least 10.00 credits. Access to all 4000 level courses is restricted to students in the B.A. Honours program with a minimum 70% average in all history course attempts.

Students should note the prerequisite requirements for upper level courses in planning their individual programs.

Content of individual courses may vary depending on the instructor; students therefore should check course outlines at the time of course selection.

Courses marked (C) are core courses required of all History program students.

Courses marked (H) are honours courses. Students in a general program wishing to take these must obtain the permission of instructors concerned.

HIST*1010 The Early Modern World F,W (3-0) [0.50]

This course will deal with the evolution and expansion of European society during the pre-industrial era. Commencing with the Renaissance and Reformation it will survey such themes as the voyages of exploration, the impact of western culture on indigenous societies, the development of commercial capitalism, the transformation of science and technology and the conflict between imperial powers in Europe and overseas. (C)

HIST*1150 The Modern World E,W (3-0) [0.50]

This course covers world history since the nineteenth century with particular emphasis on Asia, Africa, and the Americas.

HIST*1250 Science and Technology in a Global Context F,W (3-0) [0.50]

This course is an introduction to the culturally specific ways in which science and technology have developed historically from the ancient period through the twenty-first century. Emphasis will be placed on the patterns in which scientific knowledge and practices have traveled and been constructed across cultures and the interconnected but distinct histories of science and technology.

Restriction(s): ASCI*1000

HIST*2000 The British Isles, 1066-1603 S,F (3-0) [0.50]

A comparative survey of the histories of England, Scotland, Ireland and Wales during the medieval and early modern eras. Stress will be placed upon common themes such as institutional development, warfare and the frequent violent interaction between the English and the Celtic peoples.

HIST*2040 Film as History W (2-1) [0.50]

This course will consider film both as a source and as a comment on the past. Topics will vary depending on instructor expertise, and may include film as propaganda, the city in film, film as myth, women and gender in film, film and war.

HIST*2200 The Medieval World F (3-0) [0.50]

The major events and developments in Europe, north Africa and Western Asia from the fall of the Roman Empire to 1500 a.d. Emphasis will be placed on the evolution of western Christianity, the rise and expansion of Islam, the emergence of the University, and the growth of literacy and print culture culminating in the humanist movement of the late Middle Ages.

HIST*2250 Environment and History F,W (3-0) [0.50]

This course provides an introduction to the relationship between human history and the environment. It examines the causes and impact of human-induced modification of the natural world in selected areas of the globe, the evolution of attitudes and ideas about the natural world over time and the growth of conservation/environmental issues and movements. (Also offered through Distance Education format.)

HIST*2260 Religion and Society W (3-0) [0.50]

This course surveys the major trends in religious beliefs and practices and their social impact since the Reformation. The focus of the course is on the British Isles and North America with some discussion of developments in Continental Europe. (Offered through Distance Education format only.)

HIST*2300 The United States Since 1776 F (3-0) [0.50]

This course provides a survey of United States history from the Revolutionary period to the present. Course lectures, readings and assignments ask students to interrogate broadly the social, cultural, economic and political changes and continuities in America, as well as the nation's emergence as a superpower.

Restriction(s): HIST*2150 , HIST*2650

HIST*2340 Migrations in the Atlantic World, 1500-1850 W (3-0) [0.50]

The rise of the Atlantic world, with its variety of communities, cultures, and political and social regimes, was in the context of forced and voluntary migrations of Africans, Europeans, and Asians. The course will explore the nature of these societies and the linkages and interactions within and between the different areas of this broad but integrated region. The course emphasis from semester to semester may be on comparative examination of the social and political development and experiences of the peoples of any or all of its regions; of its slave and labour regimes; and of the evolution of modern nationhood.

Restriction(s): HIST*2110 , HIST*2960

HIST*2450 The Practising Historian F,W (3-0) [0.50]

This course is designed to acquaint students with the development of historical writing, the interpretive problems surrounding the study of history, and the methods employed by historians. (C) (Also offered in Distance Education format.)

Prerequisite(s): 1.00 credits in History at the 1000 or 2000 level including HIST*1010 (which may be taken as a co-requisite)

HIST*2500 Britain Since 1603 U (3-0) [0.50]

This course will survey the history of England and the Celtic Regions of the British Isles from the close of the Tudor period up to the mid-20th century. Emphasis will be placed on social and economic development before and after the Industrial Revolution as well as on those political and military challenges which have characterized Britain's status as a global power in the modern era.

HIST*2510 Modern Europe Since 1789 F (3-0) [0.50]

This course will deal with the emergence of modern European society as the result of socio-economic and consequent political changes from the French Revolution, through the World Wars, to the collapse of communism and the formation of the European Union.

HIST*2600 Post-Confederation Canada W (3-0) [0.50]

This course is a study of selected events and issues in post-Confederation Canadian history including political, economic, social, and cultural developments (C).

Prerequisite(s): HIST*2100

Restriction(s): HIST*2601/2

HIST*2610 Contemporary Canadian Issues W (3-0) [0.50]

An introduction to modern Canadian history - its nature and uses. This course will survey the history of Canada since 1900, with particular emphasis on the cultural, political, economic, and social changes that have characterized Canada since Confederation. (Offered through Distance Education format only.)

HIST*2800 The History of the Modern Family W (3-0) [0.50]

An examination of the family since 1500 with particular emphasis on the English speaking world, though comparisons will be made with other societies. Topics considered will include: change in the legal structure of marriage; power relations and sex roles within the family; the role of kin in the family; changing attitudes to sexuality; the attitude of state to the family and its functions.

HIST*2820 Modern France Since 1750 U (3-0) [0.50]

This course is a survey of French history from the beginning of modernization in the 18th century to the challenges of the late 20th century. Topics will include the Revolution, the Napoleonic period, social and political transformation in the 19th century, the Great War, the defeat of 1940 and Vichy, and the remarkable changes in French life since the Second World War.
HIST*2850 Ancient Greece and Rome W (3-0) [0.50]
The history of the Mediterranean World from prehistoric Greece through Classical Greece and Rome to the legalization of Christianity in the Roman Empire in the 4th century will be covered in this course.

HIST*2890 Early Islamic World F (3-0) [0.50]
This course is an introduction to the history of Islam. The course will consider the founding of Islam, and its global diffussion, from the seventh to the fourteenth centuries.

HIST*2910 Modern Asia W (3-0) [0.50]
An introduction to the histories and cultures of Asia since 1750. This course will consider the evolution of Asian religions, cultural identities, concepts of state and of society in the modern era.

HIST*2920 Republican Latin America W (3-0) [0.50]
This course will study selected themes in the history of Latin American republics from the independence period to the modern era.

HIST*2930 Women and Cultural Change F (3-0) [0.50]
Using gender and ethnicity as the main categories of analysis, this course examines the history of women within one global geographical region such as Asia, South America and the Caribbean or North America. The roles women have played in political, economic and private life will be emphasized.

HIST*3020 Sexuality and Gender in History U (3-0) [0.50]
This course provides an introduction to the issues of sexuality and gender within history. The course will enable students to develop an understanding of how issues of masculinity, femininity, and sexuality were developed and defined across cultures. The chronological and geographic focus of the course may vary according to the interests and expertise of the instructor. (Also offered through Distance Education format.)
Prerequisite(s): 7.50 credits including 1.00 credits in History

HIST*3030 Celtic Britain and Ireland to 1066 W (3-0) [0.50]
The social, political and cultural history of the Celtic peoples of the British Isles from Prehistory to the advent of the Normans will be discussed. Special consideration will be given to the development of Celtic institutions as well as to comparative study of successive waves of invaders-Romans, Anglo-Saxons, Vikings and Normans. (Offered through Distance Education format only.)
Prerequisite(s): 7.50 credits including HIST*2000

HIST*3060 American Society W (3-0) [0.50]
This course is a study of selected aspects of American society focusing on the 19th and 20th Centuries. Specific topics, which will vary according to the expertise of the instructor, may include such themes as War and American society, the Jacksonian Era, Civil War America, or American popular culture.
Prerequisite(s): 7.50 credits including (1 of HIST*2150 , HIST*2300, HIST*2650 )

HIST*3070 Modern India W (3-0) [0.50]
This course studies the history of modern India from 1757 to the present day. Topics include: European and British imperialism in India, Indian reactions to imperialism, socio-religious movements, the birth of nationalism and the nation-state in India, civil society and social issues in a developing nation, regionalism, foreign policy and India's place in the 21st century.
Prerequisite(s): 7.50 credits

HIST*3080 United States in the World F (3-0) [0.50]
This course is a study of the United States as a global phenomenon. Thematic topics will go beyond foreign policy and military history to include imperialism, immigration, globalization, race, gender, ethnicity, consumption, tourism, and international cultural industries.
Prerequisite(s): 7.50 credits including (1 of HIST*1150, HIST*2150 , HIST*2300, HIST*2650 )

HIST*3130 Popular Culture and Punishment, 1700-1900 F (3-0) [0.50]
The course will survey the social, political and intellectual influences upon the leisure activities of Europeans and Americans in the period with special reference to institutions such as the prison, the asylum, the reformatory and the regulation of popular culture and leisure activities. Witchcraft and the witch-hunt will be discussed.
Prerequisite(s): 7.50 credits including (HIST*1010 or SOC*1500)

HIST*3140 Witch-hunts and Popular Culture S (3-0) [0.50]
This course will explore the phenomenon of the 'witch-hunts' in early modern Europe through a focus on Scotland in the period 1560-1700. In doing so it will provide students with a background on the history of Scotland during the early modern period and introduce them to the considerable body of historical writing on the subject of the witch-hunts. In addition, students will explore notions of both elite culture and the 'popular culture' of those elements of society frequently neglected by historians. Due to the fact that the overwhelming majority of the accused witches were women, the course will include examinations of gender history and its contributions to our understandings of the period. (Offered through Distance Education format only.)
Prerequisite(s): 7.50 credits including HIST*1010

HIST*3150 History and Culture of Mexico U (3-0) [0.50]
This course will cover the history and culture of Mexico from its Pre-Columbian civilizations to the present. Topics may include: Aztec and Mayan civilizations, European discovery and conquest, inquisition, convents, independence, the Mexican revolution, indigenismo, NAFTA and Zapatista insurgency in Chiapas.
Prerequisite(s): 7.50 credits

HIST*3160 Canadian Political History U (3-0) [0.50]
This course consists of a detailed study of the background and development of the Canadian political process and culture. It devotes special attention to the changing role and character of the state.
Prerequisite(s): 7.50 credits including (HIST*2600 or HIST*2601/2 )

HIST*3180 Canada Since 1945 U (3-0) [0.50]
This course provides an in-depth examination of political, social, cultural, and economic changes in Canada since the Second World War. Particular attention will be paid to the increased diversity of the Canadian population, the development of Canadian institutions, and the changing role played by Canada in the world.
Prerequisite(s): 7.50 credits including (HIST*2600 or HIST*2601/2 )

HIST*3200 Youth in History F (3-0) [0.50]
This course examines the social history of childhood, youth and adolescence in western culture and how life-cycles vary as a function of class, race and ethnicity, gender and sexuality. It will examine the experiences of young people in different historical eras.
Questions to be explored include: Does the notion of adolescence transcend history and culture? How have experts constructed institutions such as the high school, the juvenile justice system, the media, medical and social scientific research to channel youth rebellion? Historical case studies will be selected to show generations in political, community and domestic conflict. This interdisciplinary history course draws upon sociology, anthropology, cultural studies, art, music, literature, academic writing and research from Europe, Canada and the United States.
Prerequisite(s): 7.50 credits.

HIST*3230 Spain and Portugal, 1085 to 1668 F (3-0) [0.50]
The course examines the history of Spain and Portugal from the period of the reconquista to overseas expansion. The course covers the political, diplomatic, religious and cultural development of early modern Spain and Portugal and the rise of the overseas empire.
Prerequisite(s): 7.50 credits including HIST*2200

HIST*3270 Revolution in the Modern World W (3-0) [0.50]
This course offers a comparative analysis of revolutionary movements in the modern world. It focuses on the French Revolution, the development of a revolutionary tradition in the 19th century, the Russian Revolution, and the Communist Revolution in China. Comparative themes include the relative importance of ideology and class conflict, the emergence of professional revolutionaries, and the relationship between revolutions and international relations.
Prerequisite(s): 7.50 credits

HIST*3310 Disease and History U (2-0) [0.50]
This interdisciplinary course provides an introduction to the historical interactions between disease and human society from the Middle Ages to the present. Major themes may include economics, gender, imperialism, militarism, politics, and religion.
Prerequisite(s): 7.50 credits

HIST*3320 Modern China F (3-0) [0.50]
This course examines the history and culture of China since the nineteenth century. Topics may include economics, gender, imperialism, militarism, politics, and religion.
Prerequisite(s): 7.50 credits including HIST*2910
XII. Course Descriptions, History

HIST*3350 Modern Germany U (3-0) [0.50]
This course will be devoted to a study of major themes in modern German history, and to an analysis of Germany's role in post-war Europe. Topics include the unification of Germany, the role of nationalism in modern German history, the significance of the Bismarck era, the rise of Hitler and the development of the two Germanies until their unification in 1990.
Prerequisite(s): 7.50 credits
Restriction(s): HIST*2830

HIST*3380 British Imperialism in Asia and Africa F (3-0) [0.50]
This course examines the British Empire from the 18th through the 20th centuries. It focuses on: the empire in Asia and Africa; ideologies of empire; and European and non-European approaches and reactions to empire.
Prerequisite(s): 7.50 credits including HIST*2500 or HIST*2510

HIST*3410 Pre-Colonial Africa F (3-0) [0.50]
This course will include studies on the Ibo, Yoruba and Edo societies; on the Dahomey, Hausa, Western Congo and Angola states; and the effect of the Atlantic slave trade on African societies. Emphasis will be given to the householding system, lineage group organization, subsistence agriculture, and the sources of African History.
Prerequisite(s): 7.50 credits including (1 of HIST*1150, HIST*2340, HIST*2960)

HIST*3420 Colonial Latin America F (3-0) [0.50]
This course covers the history of Latin America from the pre-Columbian period to age of independence in the early nineteenth century. Topics include pre-Columbian civilizations; the European conquest; the development of colonial societies and politics; the growth of slavery; eighteenth-century imperial reform, and the rise of independence movements. (Offered in even-numbered years.)
Prerequisite(s): 7.50 credits

HIST*3430 Topics in Environment and Society U (3-0) [0.50]
This is a topical course, which builds on themes introduced in HIST*2250, Environment and History. Topics may include global deforestation; the origins of the global environmental movement; agriculture and the environment; the environmental impact of cultural encounters.
Prerequisite(s): 7.50 credits

HIST*3440 The Global Sixties F (3-0) [0.50]
This course examines the political, social, and cultural history of one of the most important decades in the twentieth century: the sixties. It adopts global perspectives to ask how and why the sixties mattered in the development of the modern world. A diverse range of themes may be covered, from the political controversies stirred up by the Vietnam War, decolonisation in Africa, Mao’s cultural revolution, the Cuban missile crisis, and the upheavals of 1968 to the social changes occasioned by the introduction of the birth control pill, the rise of The Beatles, and the emergence of television.
Prerequisite(s): 7.50 credits

HIST*3450 The Reformation U (3-0) [0.50]
This course will examine the impact of humanism, the developments in urban culture and popular media.
Prerequisite(s): 7.50 credits

HIST*3460 Canadian Social History U (2-0) [0.50]
This course examines selected themes in the social, economic, political and cultural development of Quebec and French communities in other provinces.
Prerequisite(s): 7.50 credits including (HIST*2600 or HIST*2601/2)

HIST*3470 Independent Reading U (3-0) [0.50]
A course of independent study, based on a comprehensive reading list provided by the department. Evaluation will be based on two written examinations.
Prerequisite(s): 7.50 credits
Restriction(s): Instructor consent required.

HIST*3480 Workplace Learning U (0-0) [0.50]
An independent study course based on either History related voluntary or paid workplace experience. Evaluation will be based on assignments relating to work duties. This will usually be in the form of a weekly journal, and a major project relating to some specific aspect of the work experience. Students interested in this option must have their project approved by the department prior to the semester in which they plan to engage in their work experience. Students will then be assigned to a faculty supervisor who will oversee the project.
Prerequisite(s): 7.50 credits including 1.50 History or equivalent credits
Restriction(s): Instructor consent required.

HIST*3530 Celtic Britain and Ireland Since 1603 U (3-0) [0.50]
This course will deal with the Celtic peoples in the British Isles and their effort to maintain their cultural, economic and political independence.
Prerequisite(s): 7.50 credits including (1 of HIST*2000, HIST*2500)

HIST*3540 World War II W (3-0) [0.50]
This course is an in-depth analysis of the immediate causes and impact of the Second World War focusing on the influence of military events, on the social, political and economic developments of the major participating nations. (Also offered through Distance Education format.)
Prerequisite(s): 7.50 credits including (2 of HIST*1150, HIST*2040, HIST*2100, HIST*2300, HIST*2500, HIST*2510, HIST*2601/2, HIST*2600, HIST*2650, HIST*2830, HIST*3350)

HIST*3570 Women in Modern Europe U (3-0) [0.50]
This course will examine selected topics in modern European women's history. Attention will be given to action in the public sphere, women's personal and family lives and occupations.
Prerequisite(s): 7.50 credits including (1 of HIST*2500, HIST*2510, HIST*2800, HIST*2930)

HIST*3580 Women’s History in Asia U (3-0) [0.50]
This course examines the roles of women in one or more countries of Asia through the prisms offered by ideas of ‘race’, class, gender, social status, material culture, intellectual life, and ideology.
Prerequisite(s): 7.50 credits including (1 of HIST*1150, HIST*2800, HIST*2890, HIST*2910, HIST*2930)

HIST*3590 Ancient & Medieval India U (3-0) [0.50]
This course examines the history of India from the beginnings of civilization on the Indian subcontinent to the end of the Great Mughals in the 18th century. It provides an overview and analysis of the cultural, social, religious, political and economic development of Indian civilization, including development from tribe to state to civil society, political organization, socio-religious movements, cultural contact and exchange, and the development of a composite culture.
Prerequisite(s): 7.50 credits

HIST*3600 Quebec and French Canada U (2-0) [0.50]
This course examines selected themes in the social, economic, political and cultural evolution of Quebec and its relations with the rest of Canada. The course may also examine the development of French Canadian and Acadian communities in other provinces.
Prerequisite(s): 7.50 credits including (HIST*2600 or HIST*2601/2)

HIST*3640 Madness and Psychiatry F (3-0) [0.50]
This course will explore madness and the history of psychiatry in the modern world. Topics may include the development of asylum, wild children and human nature, the rise and fall of hysteria, psychoanalysis, as well as ways in which psychiatry has related to imperialism, racial policies, sexuality, gender, religious beliefs, and war. (Offered in odd-numbered years)
Prerequisite(s): 7.50 credits including (ASCI*1000 or HIST*1250)

HIST*3660 Canadian Social History U (2-0) [0.50]
This course examines selected themes in the development of Canadian society such as the role of class, the social consequences of industrialization and urbanization, immigration, ethnicity and religion, education and culture.
Prerequisite(s): 7.50 credits including (HIST*2600 or HIST*2601/2)

HIST*3690 Darwin, Culture and Society U (2-0) [0.50]
This course will focus on the historical, social, and cultural dimensions of Darwin’s theory of evolution, from the late 18th century to the present. Topics may include: natural history, classification, social Darwinism, race and imperialism, science & religion, science & literature, the eugenics movement, the Scopes trial, the modern evolutionary synthesis, sociobiology, gender, antievolutionism and creationism/intelligent design.
Prerequisite(s): 7.50 credits including (ASCI*1000 or HIST*1250)

HIST*3750 The Reformation U (3-0) [0.50]
The changes in religious, social and cultural life in 16th century Europe will be discussed. This course will examine the impact of humanism, the developments in urban culture known as the Renaissance, the reform movements, in central and western Europe, the Catholic response, and the resulting disintegration of the medieval social order.
Prerequisite(s): 7.50 credits including HIST*1010
HIST*3820 Early Modern France U (3-0) [0.50]
This course surveys French History from the renaissance to the French Revolution. Students will examine the emergence of the powerful monarchy, 16th-century religious conflict and civil war, and the social, political and intellectual developments of the 17th and 18th centuries, which culminated in the 1789 Revolution. 
Prerequisite(s): 7.50 credits

HIST*3830 Modern Middle East W (3-0) [0.50]
This course explores struggles for national independence in the region after 1919, the impact of the developing oil industry, the creation of Israel and the resulting Arab-Israeli conflict, the rise of American influence, the divisiveness of Cold War politics, and the role of women in contemporary Islamic societies.
Prerequisite(s): 7.50 credits including HIST*2890

HIST*3840 Ottoman Empire, 1300-1923 W (3-0) [0.50]
This course examines the rise of the Ottoman Empire in the 14th century, both in Europe and the Middle East, and traces its evolution until its demise in the 20th century. Students investigate the historiographical debates surrounding various aspects of writing Ottoman history.
Prerequisite(s): 7.50 credits

HIST*3910 Africa Since 1800 W (3-0) [0.50]
This course will trace the suppression of the slave trade and the opening of Africa to European imperialism. Emphasis will be given to resistance movements and rising nationalism between the two World Wars. An endeavour will be made to relate the national liberation movement to the achievement of independence.
Prerequisite(s): 7.50 credits including (1 of HIST*1150, HIST*2340, HIST*2960)

HIST*4030 Historical Biography U (3-0) [1.00]
This advanced research seminar asks students to consider the role of the individual in history by reading theoretical works and examples drawn from the major schools of thought on this issue. Students will undertake to write a biography that will utilize primary sources and will include a detailed historiographical discussion of the works available on their chosen subject. (H)
Prerequisite(s): 10.00 credits including 1.50 credits in History at the 3000-level
Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4040 Topics in Scottish History U (3-0) [1.00]
A seminar course dealing with selected aspects of Scottish social, economic and political history. The seminars will be based upon an examination of primary sources from the University library's extensive Scottish Collections, as well as secondary literature. Students should consult with the department for specific offerings. (H)
Prerequisite(s): 10.00 credits including HIST*3530
Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4050 Topics in Scottish History U (3-0) [1.00]
A seminar course dealing with selected aspects of Scottish social, economic and political history. The seminars will be based upon an examination of primary sources from the University library's extensive Scottish Collections, as well as secondary literature. Students should consult with the department for specific offerings. (H)
Prerequisite(s): 10.00 credits including HIST*3530
Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4090 Modern European History U (3-0) [1.00]
This course is an in-depth examination of a theme or themes from European history in the nineteenth and/or twentieth centuries. Topics chosen will vary with expertise of the instructor. (H)
Prerequisite(s): 10.00 credits including (1 of HIST*1150, HIST*2510, HIST*3900)
Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4100 Africa and the Slave Trades U (3-0) [1.00]
This course will discuss the origins, character, and operation of slavery and the export slave trades in Africa. It will examine the interaction between domestic slavery and the export slave trades, on the one hand, and demographic, political, economic, social and cultural impact on African states and societies, on the other. Other themes to be examined include slave resistance in Africa, and abolition and the introduction of legitimate commerce and their impact on Africa. (H)
Prerequisite(s): 10.00 credits including (1 of HIST*2340, HIST*2960, HIST*3410, HIST*3910)
Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4120 Topics in Global History U (3-0) [1.00]
This course focuses on issues that emphasize the history of connections between different parts of the world. Topics may include the growth of the world economy; transformations of the global environment; trade and exchange; diasporas and migration. (H)
Prerequisite(s): 10.00 credits including 1.50 credits in History at the 3000-level
Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4140 Sexuality in the Middle Ages F (3-0) [1.00]
This course will provide a thematic approach to the foundations of western attitudes towards sex and sexuality as they developed in the European Middle Ages. It will examine the complex interweaving of Greek and Roman medicine, medieval Christian canon law and theology, and Germanic popular beliefs, which together provided the underpinnings of western values and practices pertaining to human sex and sexuality, with enduring results. The course will take an historiographical approach to topics and themes.
Prerequisite(s): 10.00 credits including (1 of HIST*2000, HIST*2200, HIST*3020)
Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4160 Seminar in Canadian Political History U (3-0) [1.00]
This seminar examines the origins, major themes, and historical development of Canadians' cultural identities. Possible topics include anti-Americanism, loyalism, multiculturalism, official bilingualism, mass culture, tourism, folklore, and state cultural policies. (H)
Prerequisite(s): 10.00 credits including (HIST*2300 or HIST*2650)
Restriction(s): HIST*4210, restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4180 American Identities F (3-0) [1.00]
This course analyzes how Americans have constructed and enacted identities in the U.S. as citizens and consumers through investigating concepts such as 'race', ethnicity, gender, sexuality, class, regional distinctions, and nationalism. (H)
Prerequisite(s): 10.00 credits including (HIST*2300 or HIST*2650)
Restriction(s): HIST*4210, restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4220 Canadian Cultural Identity U (3-0) [1.00]
This seminar examines the origins, major themes, and historical development of Canadians' cultural identities. Possible topics include anti-Americanism, loyalism, multiculturalism, official bilingualism, mass culture, tourism, folklore, and state cultural policies. (H)
Prerequisite(s): 10.00 credits including (HIST*2300 or HIST*2650)
Restriction(s): HIST*3220, restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4280 Poverty and Policy in the Victorian Age U (3-0) [1.00]
Starting with the debates over the New Poor Law of 1834, this course will examine the changing content of the notion of poverty, and changing methods adopted to treat it. It will also look at the lives of the poor, in so far as these can be reconstructed from contemporaneous sources. (H)
Prerequisite(s): 10.00 credits including HIST*2500
Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4450 History with Numbers F (3-0) [1.00]
This course surveys the use of quantitative methods, the historical evolution of data generation and recording, and the use of quantitative sources in historical analysis and evidence in historical research. The principal objective is to build numeracy among senior History students. Case studies and example will be drawn from studies of inequality, family structure and migration from a variety of regions in Europe, Asia, Africa and the Americas. (H)
Prerequisite(s): 10.00 credits including HIST*2450, and at least 1.00 credits in History at the 3000 level or above.
Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.

HIST*4470 Special History Project Seminar I U (3-0) [0.50]
This course is designed to train honours students in the techniques of research, interpretation and writing of history. The student will choose a topic for intensive study from a list approved by the department. (H)
Prerequisite(s): 10.00 credits
Restriction(s): Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts. Instructor consent required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Restriction(s)</th>
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<tbody>
<tr>
<td>HIST*4560</td>
<td>Topics in Revolution U (3-0) [1.00]</td>
<td>This seminar course is designed to explore one or more social or political or intellectual revolutions in the early modern or modern era depending on the expertise of the instructor. Students should consult the department for specific offerings. (H)</td>
<td>10.00 credits</td>
<td>Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.</td>
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<tr>
<td>HIST*4580</td>
<td>The French Revolution U (3-0) [1.00]</td>
<td>This seminar course provides an in-depth analysis of the French Revolution, 1789-1799, and the literature surrounding its interpretation. (H)</td>
<td>10.00 credits including (1 of HIST<em>2510, HIST</em>2820, HIST<em>3270, HIST</em>3820)</td>
<td>Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.</td>
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<tr>
<td>HIST*4620</td>
<td>Seminar in Canadian Rural History U (3-0) [1.00]</td>
<td>This course will examine selected topics in the social and economic transformation of rural Canada with relevant comparisons to the rest of North America and elsewhere. (H)</td>
<td>10.00 credits</td>
<td>Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.</td>
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<tr>
<td>HIST*4670</td>
<td>Seminar in Science and Society W (3-0) [1.00]</td>
<td>This course will discuss the way science is rooted in society and culture. It will explore the broad field of the history of science, the social role of the scientist, the impact of scientific methods, technology, machines and networks. Students will emerge with the ability to grapple with many of the challenges involved in rethinking the history of science in social and cultural terms. (H)</td>
<td>10.00 credits including 1 of ASCI<em>1000, HIST</em>1250, HIST*3690</td>
<td>Restricted to students in the B.A. Honours or B.A.S. program with a minimum of 70% average in all History course attempts.</td>
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<tr>
<td>HIST*4680</td>
<td>Urban America, 1870-1920 W (3-0) [1.00]</td>
<td>This course examines the development of urban life in the United States between the Civil War and World War I. Course readings, discussions and assignments ask students to investigate the environmental, cultural, social, economic, and political realities that drove the process of urbanization, and the ways cities shaped modern America. (H)</td>
<td>10.00 credits including (1 of HIST<em>2150 , HIST</em>2300, HIST*2650 )</td>
<td>Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.</td>
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<tr>
<td>HIST*4700</td>
<td>Topics in Medieval History U (3-0) [1.00]</td>
<td>A detailed analysis of selected aspects of the Middle Ages from c. 1000. Students should consult the department for specific offerings. (H)</td>
<td>10.00 credits including HIST<em>2000 or HIST</em>2200</td>
<td>Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.</td>
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<tr>
<td>HIST*4820</td>
<td>Topics in Islamic History W (3-0) [1.00]</td>
<td>A seminar course designed to explore selected aspects of Islamic history and/or historiography. Students should consult the department for specific offerings.</td>
<td>10.00 credits, (1 of HIST<em>2890, HIST</em>3830, HIST*3840)</td>
<td></td>
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<tr>
<td>HIST*4900</td>
<td>Topics in Modern India W (3-0) [1.00]</td>
<td>This course will examine the development of India from a British colony to independent nation state and modern nation from the 18th to the 21st centuries. It examines the foundations of imperialism in India, Indian political nationalism, and post-colonial identity and the new India. (H)</td>
<td>10.00 credits including (1 of HIST<em>2910, HIST</em>3070, HIST*3380)</td>
<td>Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts.</td>
</tr>
<tr>
<td>HIST*4970</td>
<td>Special History Project Seminar II U (3-0) [0.50]</td>
<td>A continuation of HIST*4470. (H)</td>
<td>10.00 credits</td>
<td>Restricted to students in the B.A. Honours program with a minimum of 70% average in all History course attempts. Instructo...</td>
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Human Kinetics

Department of Human Health and Nutritional Sciences

**HK*2100 Anatomy for Artists W (3-3) [0.50]**

The structure of the human body will be considered in this course. The limitations imposed by bones, joints and muscle will be explored in relation to human movement and to expressive motion. This course has been designed for students registered in the Studio Arts program. This course can fulfill one of the natural and mathematical sciences requirements for students in SART, but it cannot be used towards the SART major.

*Prerequisite(s):* SART*2090

*Restrictions:* Restricted to Studio Arts majors.

**HK*2270 Principles of Human Biomechanics W (3-1) [0.50]**

This course will address the application of mechanical principles to the study of human movement. Topics will include: motion analysis techniques, anthropometrics, biological tissue tolerance, muscle force generation, static and dynamic equilibrium, work/energy and impulse/momentum as they apply to the description of motion, injury of musculoskeletal tissues and optimization of human performance.

*Prerequisite(s):* 4.00 credits including (BIOL*1040 or BIOL*1090), (PHYS*1000 or PHYS*1080)

**HK*3100 Neuromuscular Physiology W (3-0) [0.50]**

Normal muscle movement is controlled by the motor cortex or by reflexes within the context of the sensory environment. This course will introduce key concepts in motor control of mammalian, human movement, coordination of movement, motor program selection, motor program execution, motor unit recruitment, skeletal muscle excitation-contraction coupling. This course is required for students wishing to gain certification by the Ontario Kinesiology Association.

*Prerequisite(s):* 1 of BIOM*3100, BIOM*3200, HK*3940, ZOO*3200

*Restrictions:* Restricted to B.Sc., Major in Human Kinetics or Neuroscience Minor.

**HK*3401 Human Anatomy: Dissection F (3-3) [0.75]**

First part of the two-semester course HK*3401/2. Refer to HK*3401/2 for course description.

*Co-requisite(s):* HK*3940 or instructor consent

*Restrictions:* HK*3501/2 Registration in the B.Sc. Major in Human Kinetics or Bio-Medical Science. Instructor consent required.

**HK*3401/2 Human Anatomy: Dissection F-W [1.50]**

A two-semester lecture and laboratory course in human anatomy which includes a detailed study of the skeleton, upper and lower limbs, thorax, abdomen, pelvis, perineum, head, neck and central nervous system. The labs involve hands-on dissection. This is a two-semester course offered over consecutive semesters. When you select it you must select HK*3401 in the Fall semester and HK*3402 in the Winter semester. A grade will not be assigned to HK*3401 until HK*3402 has been completed.

*Co-requisite(s):* HK*3940 or instructor consent

*Restrictions:* HK*3501/2. Registration in the B.Sc. Major in Human Kinetics or Bio-Medical Science. Instructor consent required

**HK*3402 Human Anatomy: Dissection W (3-3) [0.75]**

Second part of the two-semester course HK*3401/2. Refer to HK*3401/2 for course description.

*Prerequisite(s):* HK*3401

**HK*3501 Human Anatomy: Prosection F (3-2) [0.75]**

First part of the two-semester course HK*3501/2. Refer to HK*3501/2 for course description.

*Co-requisite(s):* HK*3940


**HK*3501/2 Human Anatomy: Prosection F-W [1.50]**

A two-semester lecture and laboratory course in human anatomy which includes a detailed study of the skeleton, upper and lower limbs, thorax, abdomen, pelvis, perineum, head, neck and central nervous system. Labs involve observation of anatomical details using prosections and dissected specimens. This is a two-semester course offered over consecutive semesters. When you select it you must select HK*3501 in the Fall semester and HK*3502 in the Winter semester. A grade will not be assigned to HK*3501 until HK*3502 has been completed.

*Co-requisite(s):* HK*3940

*Restrictions:* HK*3401/2. Registration in the B.Sc. Major in Human Kinetics or Bio-Medical Science. Instructor consent required

**HK*3502 Human Anatomy W (3-2) [0.75]**

Second part of the two-semester course HK*3501/2. Refer to HK*3501/2 for course description.

*Prerequisite(s):* HK*3501

**HK*3600 Applied Human Kinetics I F (3-3) [0.75]**

This course covers laboratory techniques which are central to human biology, together with their underlying concepts. Human performance and function are evaluated through cellular, organic, systemic and whole person studies. The student's technical competence and conceptual understanding are emphasized.

*Prerequisite(s):* HK*2270

*Restrictions:* Registration in the Human Kinetics major.

**HK*3940 Human Physiology F (6-0) [1.25]**

This course consists of a series of lectures, demonstrations and tutorials designed for students desiring a knowledge of physiological concepts as they apply to human beings. The course discusses cellular physiology, neurophysiology, endocrinology, and the physiology of the following systems: cardiovascular, renal, gastrointestinal and respiratory with an emphasis on the regulation of function.

*Prerequisite(s):* (BIOL*1040 or BIOL*1080, BIOL*1090), BIOL*2580

**HK*4070 Clinical Biomechanics F (3-2) [0.50]**

This course covers functional anatomy, neurophysiology and mechanical characteristics of humans at the tissues and whole-body levels. Pathomechanics of human movement resultant from disease, abuse or trauma will be examined. Special emphasis will be placed on etiology, testing and correction of functional disorders with special reference to balance, gait and orthopaedic biomechanics.

*Prerequisite(s):* ENGG*2660 or (HK*2270, HK*3600)

**HK*4230 Advanced Study in Human Health and Nutritional Sciences S,F,W (3-0) [0.50]**

The student will conduct independent literature research of an approved topic to be decided by the student in consultation with a faculty advisor. Students must make arrangements with both a faculty advisor and the course coordinator at least one semester in advance and the signature of the course coordinator will be required to select the course. A departmental registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the student is registered for the course.

*Prerequisite(s):* 12.00 credits

*Restriction(s):* Course coordinator consent required.

**HK*4240 Occupational Biomechanics and Ergonomics W (3-2) [0.75]**

This course introduces the methods available for reducing musculoskeletal injuries in the workplace. Topics include: biomechanical, psychophysical, physiological, and integrated approaches to performing physical demands analyses, anatomy and etiology of low back injuries and upper limb disorders, principles of redesigning tasks to reduce the risk of injury, pre-employment screening and legislated guidelines. Students apply the course material to ergonomic assessments performed in industrial environments.

*Prerequisite(s):* 1 of ENGG*1210, HK*3270, (HK*2270, HK*3600)

**HK*4360 Research in Human Health and Nutritional Sciences S,F,W (0-12) [1.00]**

The student will select a research topic and design and complete a project in an area of interest, in consultation with a faculty advisor. Students must make arrangements with both a faculty advisor and the course coordinator at least one semester in advance and the signature of the course coordinator will be required to select the course. A departmental registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the student is registered for the course.

*Prerequisite(s):* 12.00 credits

*Restriction(s):* Course coordinator consent required.

**HK*4371 Research in Human Health and Nutritional Sciences II S,F,W (0-6) [0.50]**

First part of the two-semester course HK*4371/2. The student will select a research topic and design and complete a project in an area of interest, in consultation with a faculty advisor. This is a two-semester course offered over consecutive semesters. When you select it you must select HK*4371 in the first semester and HK*4372 in the second semester. A grade will not be assigned to HK*4371 until HK*4372 has been completed.

*Prerequisite(s):* HK*4371/2. Refer to HK*4371/2 for course description.

*Restriction(s):* Course coordinator consent required.

2012-2013 Undergraduate Calendar

Last Revision: Oct. 19, 2012
HK*4371/2 Research in Human Health and Nutritional Sciences II S-F,W-W-S [1.00]
The student will select a research topic and design and complete a project in an area of
interest, in consultation with a faculty advisor. This is a two-semester course offered over
consecutive semesters. When you select it you must select HK*4371 in the first semester
and HK*4372 in the second semester. A grade will not be assigned to HK*4371 until
HK*4372 has been completed. Students must make arrangements with both a faculty
advisor and the course coordinator at least one semester in advance and the signature of
the course coordinator will be required to select the course. A departmental registration
form must be obtained from the course coordinator and submitted no later than the second
class day of the semester in which the student is registered for the course.
Prerequisite(s): 12.00 credits
Restriction(s): Course coordinator consent required.

HK*4372 Research in Human Health and Nutritional Sciences II F,W,S (0-6) [0.50]
Second part of the two-semester course HK*4371/2. The student will select a research
topic and design and complete a project in an area of interest, in consultation with a
faculty advisor. This is a two-semester course offered over consecutive semesters. When
you select it you must select HK*4371 in the first semester and HK*4372 in the second
semester. A grade will not be assigned to HK*4371 until HK*4372 has been completed.
Students must make arrangements with both a faculty advisor and the course coordinator
at least one semester in advance and the signature of the course coordinator will be
required to select the course. A departmental registration form must be obtained from
the course coordinator and submitted no later than the second class day of the semester
in which the student is registered for the course.
Prerequisite(s): HK*4371
Restriction(s): Course coordinator consent required.

HK*4441 Advanced Study in Human Anatomy F (1-10) [1.00]
First part of the two-semester course HK*4441/2. This course will provide students who
have completed HK*3401/2 with the opportunity to pursue anatomical studies in an
interdisciplinary fashion at the advanced level. Students will use their knowledge in
anatomy to develop educational material and/or teach anatomical concepts and applications
of human anatomy. This is a two-semester course offered over consecutive semesters.
When you select it you must select HK*4441 in the first semester and HK*4442 in the
second semester. A grade will not be assigned to HK*4441 until HK*4442 has been
completed. Students must make arrangements with the course coordinator at least one
semester in advance, and the signature of the course coordinator will be required to select
the course. A departmental registration form must be obtained from the course coordinator
and submitted no later than the second class day of the semester in which the student is
registered for the course.
Prerequisite(s): HK*3402, HK*3940
Restriction(s): Course coordinator consent required.

HK*4442 Advanced Study in Human Anatomy F-W [2.00]
This course will provide students who have completed HK*3401/2 with the opportunity to
pursue anatomical studies in an interdisciplinary fashion at the advanced level. Students
will use their knowledge in anatomy to develop educational material and/or teach
anatomical concepts and applications of human anatomy. This is a two-semester course
offered over consecutive semesters. When you select it you must select HK*4441 in the
first semester and HK*4442 in the second semester. A grade will not be assigned to
HK*4441 until HK*4442 has been completed. Students must make arrangements with
the course coordinator at least one semester in advance, and the signature of the course
coordinator will be required to select the course. A departmental registration form must
be obtained from the course coordinator and submitted no later than the second class day
of the semester in which the student is registered for the course.
Prerequisite(s): HK*3402, HK*3940
Restriction(s): Course coordinator consent required.

HK*4444 Advanced Study in Human Anatomy W (1-10) [1.00]
Second part of the two-semester course HK*4441/2. This course will provide students
who have completed HK*3401/2 with the opportunity to pursue anatomical studies in
an interdisciplinary fashion at the advanced level. Students will use their knowledge in
anatomy to develop educational material and/or teach anatomical concepts and applications
of human anatomy. This is a two-semester course offered over consecutive semesters.
When you select it you must select HK*4441 in the first semester and HK*4442 in the
second semester. A grade will not be assigned to HK*4441 until HK*4442 has been
completed. Students must make arrangements with the course coordinator at least one
semester in advance, and the signature of the course coordinator will be required to select
the course. A departmental registration form must be obtained from the course coordinator
and submitted no later than the second class day of the semester in which the student is
registered for the course.
Prerequisite(s): HK*4441
Restriction(s): Course coordinator consent required.

HK*44460 Regulation of Human Metabolism W (3-0) [0.50]
The course focuses on the underlying metabolic events that occur in association with
exercise. Skeletal muscle metabolism and substrate delivery are discussed with respect
to the intracellular biochemical events integrated with both the endocrine and the chemical
aspects of neural mechanisms.
Prerequisite(s): HK*3940, (HK*4320 or NUTR*4210)

HK*4550 Human Cardio-respiratory Physiology F (3-0) [0.50]
The central focus of this course is a comprehensive examination of the effects of a variety
of work parameters on normal cardio-respiratory adjustments required to meet metabolic
demands. Immediate adjustments to increase metabolic rate as well as long term
cardio-respiratory adaptability will be discussed.
Prerequisite(s): HK*3940

HK*4600 Applied Human Kinetics II W (3-3) [0.75]
The objective of this course is to expand on the introductory laboratory practices developed
in HK 3600 Applied Human Kinetics I. Students will examine the functioning of a human
body at rest and in motion, while learning clinical and advanced laboratory techniques.
The students will be introduced to the underlying concepts of various physiological and
biomechanical measures in lecture. Subsequently, the principles from the lecture will be
used to make direct measures in the laboratory, with an emphasis on understanding
exercise physiology, clinical testing practices, and integrative approaches to studying
human movement. Students will be asked to critically analyze the laboratory measures
and findings, and to integrate the lecture and laboratory material in formalized laboratory
reports.
Prerequisite(s): HK*3600
Restriction(s): Restricted to students in Human Kinetics.

HK*4610 Health and Injury Biomechanics W (3-2) [0.50]
This course presents an overview of bone and joint function from a biomechanics
perspective, within the framework of health and injury. Particular emphasis is placed on
the influence of biomechanical signals on the regulation of bone and joint structure and
function. Individual diseases, such as osteoarthritis, will be considered as they impact
the various tissues of the joint (cartilage, ligament and bone) and the neuromuscular
system. The laboratory will provide supplementary material illustrating particular aspects
of musculoskeletal function including in vivo and in vitro biomechanical testing.
Prerequisite(s): ENGG*3150 or HK*2270
Horticultural Science

Department of Plant Agriculture

HORT*3120 Grape and Wine Science W (3-0) [0.50]
This course will examine whole plant physiology as illustrated by the perennial system of a grapevine. Students will investigate all the primary functions of a green plant, with each function then related to a grapevine and how it functions in nature. Each function of the vine will be connected to the ultimate effects on fruit quality and by extension, wine quality throughout the course. (Offered through Distance Education format only.)
Restriction(s): HORT*3430, Not acceptable for students in the BSC, BSC(Agr) or BSC(Env) programs.

HORT*3130 Science of Gardening F (3-0) [0.50]
This course examines the growth, development and physiology of horticultural species used for food and ornamental aesthetic purposes. The interaction between plants and impact of environmental factors as such as light, temperature, CO2 and humidity [on plant processes] will be emphasized.
Restriction(s): Not acceptable for students in the BSC, BSC(Agr) or BSC(Env) programs.

HORT*32450 Introduction to Turfgrass Science F (3-2) [0.50]
The biology, ecology, adaptation, and uses of cool-season and warm-season turfgrass species and cultivars will be introduced. Topics will include the identification and life strategies of different turfgrass species, principles of reproduction and techniques for establishment of turfgrass by seeding, sprigging and sodding. The ecology of management including mowing, irrigation, cultivation, mineral nutrition, repair and renovation, and management of stresses (thatch, weeds, insects, disease) will be covered. The turfgrass industry will be introduced, including application of ecological principles to athletic field management, sod production, golf course management, and professional lawn care.
Prerequisite(s): BIOL*1040 or [BIOL*1090, (1 of BIOL*1050, BIOL*1070, BIOL*1080)]
Restriction(s): HORT*3220

HORT*33010 Annual, Perennial and Indoor Plants - Identification and Use F (2-2) [0.50]
This course focuses on the identification and adaptation of annual, biennial, perennial herbaceous and indoor plants. Lectures will be integrated with outdoor laboratory activities to emphasize utilization of plant groups in park, perennial border, general landscape botanic garden and interiorscape settings. (Offered in odd-numbered years.)
Prerequisite(s): 0.50 credits in botany

HORT*3350 Management of Turfgrass Insect Pests and Weeds F (3-2) [0.50]
Biology, behavior and impact of insect pests of turfgrass and recognition of symptoms will be emphasized. Identification and management of weed species commonly found in turfgrass will be discussed. Environmental impacts of cultural and chemical control techniques will be discussed for each group of pests and advances in chemical and biological control methods will be developed.
Prerequisite(s): HORT*2450
Restriction(s): DTM*3300

HORT*3375 Principles and Applications of Plant Propagation F (2-2) [0.50]
Plant propagation is the art and science of multiplication of plant material involving the application of the principles of plant growth and development and the techniques of mass production. This course will explore biological, commercial, environmental, and social dimensions of plant propagation systems with emphasis on global trends in the plant production industry.
Prerequisite(s): AGR*2470 or BOT*2100
Restriction(s): HORT*3230, HORT*3350

HORT*3370 Medicinal Plants W (3-0) [0.50]
This course will focus on the use of medicinal plants, specifically in view of the application of recent biotechnology advancements in their production and processing for enhancing human health. (Offered in even-numbered years)
Prerequisite(s): 1 of BIOL*1040, BIOL*1050, BIOL*1070, BIOL*1080

HORT*3380 Greenhouse Production W (3-3) [0.50]
Principles and practices of production, culture and marketing of greenhouse flower and vegetable crops.
Prerequisite(s): BOT*3310 or PBIO*3110

HORT*3430 Wine-Grape Culture W (3-0) [0.50]
The history and impact of grape-growing in the New World will be presented and studied. Grape (Vitis) taxonomy (ampelography) and physiology will be studied as it relates to the Old World/New World wine growing. The physiology of fruiting and vegetative balance for managing wine quality in the vineyard will be integrated with basic wine-making practices and general oenological techniques. (Offered through Distance Education only.)
Prerequisite(s): AGR*2470 or BOT*2100

HORT*3510 Vegetable Production F (3-3) [0.50]
The vegetable industry and the characteristics, culture, storage and marketing of field-grown vegetable crops will be studied. Organic vegetable production will also be considered.
Prerequisite(s): BOT*2100

HORT*4200 Turf, the Environment and Society W (3-0) [0.50]
The course will explore the environmental impact of turfgrass management in urban and rural landscapes and society's perception of how those areas should be used. Emphasis will be placed on the ecology of turfgrass systems and issues surrounding society's perception of management practices. The impact of public perception about the management and environmental impact of turfgrass areas in urban and rural landscapes will be discussed, including the issues surrounding the use and maintenance of turfgrass ecosystems.
Prerequisite(s): AGR*2050, CROP*2110, HORT*42450, HORT*4450, (1 of BIOL*2060, BOT*3050, BOT*2050)

HORT*4300 Postharvest Physiology F (3-3) [0.50]
An examination and discussion of physiological and biochemical processes unique to postharvest development and deterioration. Principles and practices of storing fruits, vegetables, and florists' and nursery stocks as well as marketing pathways for horticultural crops will be considered.
Prerequisite(s): BOT*3310 or PBIO*3110

HORT*4380 Tropical and Sub-Tropical Crops F (3-0) [0.50]
This course examines the production and utilization of tropical and sub-tropical crops in farming systems. School of Environmental Design and Rural Development.
Prerequisite(s): AGRI*1110 or AGRI*1250

HORT*4420 Fruit Crops F (3-3) [0.50]
Growth patterns, fruiting characteristics and adaptation to environmental conditions of fruit crops in temperate regions. Classification, cultural practices including propagation and the physiological principles underlying these practices will be emphasized.
Prerequisite(s): BOT*2100

HORT*4450 Advanced Turfgrass Science F (3-2) [0.50]
This course builds on basic principles learned in Introduction to Turfgrass Science with an emphasis on plant stressors and physiological responses of plants to stress. Interactions between the soil system, the plant and the environment are considered, with focus on how soil physical, chemical and biological properties as well as environmental factors affect turfgrass plant health and physiology. Principles and strategies of biological control, cultural practices that affect plant health, pest life cycles and pest population levels are addressed in order to develop integrated management plans for turf aimed at reducing pest levels in an environmentally benign manner.
Prerequisite(s): HORT*2450
Human Resources and Organizational Behaviour

Department of Business - College of Management and Economics

HROB*2010 Foundations of Leadership F,W (3-0) [0.50]
Using an integrated approach to studying leadership, this foundation course covers history, evolving theories, models, and research both from a theoretical point of view and practical applications. This course will use a seminar style with applied workshops, class discussions, guest speakers, and student participation. Students will prepare elements of a skills portfolio and a research paper. This is a required course for the Certificate in Leadership. (Also offered through Distance Education format.)

Equate(s): BUS*2010
Restriction(s): UNIV*2000

HROB*2100 Managing People in Organizations F,W (3-0) [1.00]
This course will use an integrative approach to help you to understand, predict and influence how individuals behave at work. In addition, students will be provided with the tools to attract, select and retain the right employees, while recognizing the role of the organization’s culture and strategy and the impact of external forces. This course will use Human Resource Management practices to illustrate the importance of understanding Organizational Behavioural Theories. Many real world examples will be used to provide a relevant and rich learning experience.

Prerequisite(s): 2.00 credits
Restriction(s): BUS*2090, BUS*3000, BUS*4000, HTM*2200, HTM*3000, HTM*4100, HTM*4390, ISS*2500, Restricted to students in BCOMM, BASC: AHN, and BA: EARS.

HROB*3010 Compensation Systems F (3-0) [0.50]
This course focuses on how organizations attract, retain, and motivate employees through formal and informal reward mechanisms. Topics include: developing pay structures, job analysis, job evaluation, pay systems, pay system administration, equity issues, and benefits.

Prerequisite(s): 1 of BUS*3000, HROB*2100, HTM*3000
Equate(s): BUS*3010, PSYC*3010
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

HROB*3030 Occupational Health and Safety W (3-0) [0.50]
The major objective of this course is to introduce Human Resources Professionals to this broad and ever changing field. Occupational Health and Safety, is an inherently technical subject far broader than legislation only. The multiple dimensions of the various issues - technical, legislative, political and personal are a required part of the training for a professional in this field.

Prerequisite(s): 9.00 credits including (1 of BUS*3000, HROB*2100, HTM*3000)
Equate(s): BUS*3030, PSYC*3060
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

HROB*3050 Employment Law F (3-0) [0.50]
This course will introduce students to Canadian employment law, specifically rules that govern the relations between employers and employees. Subject areas will include the history of employment law, employment contracts, creation and modification of the employment relationship, employer and employee obligations, employment standards, human rights legislation and termination. International comparisons will also be examined. (First offering - Fall 2013)

Prerequisite(s): 9.00 credits including HROB*2100
Restriction(s): Restricted to students in BCOMM, BASC: AHN, and BA: EURS.

HROB*3070 Recruitment and Selection F (3-0) [0.50]
This course will provide students with the appropriate tools needed to recruit and select employees, identify related competencies, identify performance appraisal methods, and evaluate the effectiveness of these programs within the context of our Canadian legal framework.

Prerequisite(s): HTM*3000
Equate(s): BUS*3070, PSYC*3070
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

HROB*3090 Training and Development W (3-0) [0.50]
This course focuses on how organizations develop employee skills through training and development programs. Topics will include: adult learning principles, training needs assessments, training program design, instructional methodologies, coaching and mentoring, individualized development and program evaluation.

Prerequisite(s): 1 of BUS*3000, HROB*2100, HTM*3000
Equate(s): BUS*3090, PSYC*3090
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

HROB*3100 Managerial Skills F,W (3-0) [0.50]
This course is designed to help students develop critical managerial skills such as self-awareness, managing conflict and stress, communicating effectively, and interviewing. (First offering - Fall 2013)

Prerequisite(s): 9.00 credits including HROB*2100
Restriction(s): BUS*2090, BUS*4000, HTM*2200, HTM*4100, HTM*4390, BUS*2500

HROB*4000 Strategic Human Resource Management W (3-0) [1.00]
This course examines the management of human resources from a strategic perspective, focusing on how organizations can achieve competitive advantage through their people. Students will be challenged to integrate their knowledge of organizational behaviour and the various human resource functions to develop strategic solutions to organizational issues. (First offering - Winter 2015)

Prerequisite(s): HROB*4100

HROB*4010 Leadership Capstone W (3-0) [0.50]
This course is the capstone course for students completing the Certificate in Leadership. Based on their prior course work and experience in their leadership placements, students will examine the relationships between leadership theory and practice, assess their effectiveness in a leadership role, and develop a personal plan for further developing their leadership skills. (Offered through Distance Education format only.)

Prerequisite(s): BUS*4010 or HROB*2100 plus 120 hours of placement experience
Restriction(s): UNIV*4000 Instructor consent required.

HROB*4030 Advanced Topics in Human Resource Management U (3-0) [0.50]
Students will actively examine issues in selected topic areas of human resource management at an advanced level and with a focus on application in an actual organizational setting. The focal area of the course, or range of human resource management topics covered by the course, will vary depending on instructor. Selected topic areas may include corporate social responsibility, leadership issues, strategic human resource management, gender issues, human rights issues, recruitment methods and outcomes, functional job analysis and validation methods, job performance criteria and appraisal tools, selection processes and tools, organizational justice, work attitudes, and prejudice and discrimination in the workplace. Specific topic areas will be announced prior to the course selection period.

Prerequisite(s): 1 of BUS*3000, HROB*2100, HTM*3000
Equate(s): BUS*4030

HROB*4060 Human Resources Planning W (3-0) [0.50]
This course introduces the strategic planning role that human resources professionals play in organizations. Students will confront the challenges and demands of rightsizing, technological change, corporate repositioning, cost containment, productivity improvements, and the consequences of relocation, outplacement and retraining of staff. An understanding of the essential elements of the human resource planning process in organizations will be provided. Students will acquire knowledge in analyzing, assessing and programming for the human resource requirements of organizational, business and strategic plans.

Prerequisite(s): 15.00 credits including (1 of BUS*3000, HROB*2100, HTM*3000)
Equate(s): BUS*4060, HTM*4160
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

HROB*4100 Applied Research in Human Resources Management F (3-0) [1.00]
This course provides students with the opportunity to conduct hands-on research in an organization on issues that relate to Human Resource Management. Students will work in groups and be expected to find organizations for their research project. Although students will be primarily accountable for finding their organizations to work with, instructor support will be provided to assist students if difficulties arise. The instructor will also serve as a resource throughout the project. Lecture topics include: understanding organizational issues, understanding the consulting process (e.g. engagement, communication, ethics), project planning, data collection methods in an applied context (e.g. sampling, confidentiality, practical constraints), and report writing.

Prerequisite(s): 1 of BUS*3000, HROB*2100, HTM*3000
Equate(s): BUS*4100, PSYC*4100
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.
XII. Course Descriptions, Hospitality and Tourism Management

**HTM*3030 Beverage Management F (2-2) [0.50]**

This course provides students with knowledge of the beer, spirit, wine, coffee and soft drink industries and their importance in the hospitality environment. Course topics will include product characteristics, purchasing, pricing, control, marketing and promotion, trends and the responsible service of alcoholic beverages.

Prerequisite(s): 9.00 credits
Restriction(s): HTM*4180. Registration in BCOMM:HFA, BCOMM:HFA:C or BCOMM:TMGT. Students must be of legal drinking age in Ontario.

**HTM*3060 Lodging Management F (3-0) [0.50]**

The intent of this course is to explore and analyze the principles and practices of lodging management and related sales activities. The management of and interaction among various divisions of lodging operations are addressed, including general management, front office/housekeeping/engineering divisions, food and beverage operations, sales and marketing, accounting and finance. Focus of the course is on communication both within and among departments, divisions, and most importantly, with the consumer.

Prerequisite(s): 9.00 credits including HTM*2100
Restriction(s): Registration in BCOMM:HFA, BCOMM:HFA:C or BCOMM:TMGT.

**HTM*3080 Hospitality and Tourism Marketing F,W (3-0) [0.50]**

This course focuses on major marketing decisions that hospitality managers face in generating and sustaining demand for their products and services. Course content includes marketing strategies and practices, segmentation and target marketing, positioning and branding, pricing, promotions, personal selling, and distribution system decisions for all hospitality and tourism related businesses.

Prerequisite(s): 9.00 credits including HTM*2010, (HTM*2120 or MCS*1000)
Restriction(s): Registration in BCOMM:HFA, BCOMM:HFA:C or BCOMM:TMGT.

**HTM*3090 Restaurant Operations Management F,W (4-6) [1.00]**

This course covers the application of managerial functions to restaurant and foodservice operations with the emphasis on the principles of food production and service in a commercial setting.

Prerequisite(s): HTM*2030, HTM*2700
Restriction(s): Registration in BCOMM:HFA, BCOMM:HFA:C or BCOMM:TMGT; BASC:AHN.

**HTM*3120 Service Operations Analysis F,W (3-0) [0.50]**

This course presents an analysis of operations management in service industries with the aim of improving productivity and service delivery. Specific areas to be studied include the nature of productivity, the use of work study methods, the significance of statistical concepts and the application of operations research techniques.

Prerequisite(s): ECN*2740 or STAT*2060
Restriction(s): FARE*3310 Registration in BCOMM:HFA, BCOMM:HFA:C or BCOMM:TMGT.

**HTM*3150 Experiential Learning in the Hospitality Industry U (3-0) [0.50]**

An independent program of study formally integrating the student’s academic study with a concentrated work experience. The study is to be decided by the student in consultation with the supervisory faculty (normally the department’s Co-op Co-ordinator) prior to registration in the course.

Restriction(s): Registration in BCOMM:HFA:C. Instructor consent required.

**HTM*3160 Destination Management and Marketing F (3-0) [0.50]**

This course examines the attractiveness of communities (urban and rural; domestic and international) for visitors and the implications that result from the development of a tourism industry. Methods to encourage visitation are explored as are the attempts to create and manage the development of the community and the tourism industry in a sustainable manner.

Prerequisite(s): HTM*2170
Restriction(s): Registration in BCOMM:HFA, BCOMM:HFA:C or BCOMM:TMGT; BASC:AHN Area of Emphasis in European Business.

**HTM*3180 Casino Operations Management U (0-0) [0.50]**

This course examines the application of business management principles and procedures within casinos. Major topics include: the global and Canadian casino industries, regulation and control, casino accounting and statistics, casino marketing, security and surveillance, human resources, customer service, and specific casino operational management components. Students must be legal age of 19 or over. (Offered through Distance Education Only.)

Prerequisite(s): (1 of BUS*2090, HROB*2100, HTM*2200), (1 of ACCT*2230, AGEC*2230, BUS*2230, HTM*3070)
Restriction(s): This is a priority access course. Some restrictions may apply during some time periods. Please contact the department for more information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
<th>Co-requisite(s)</th>
<th>Restriction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTM*3780</td>
<td>Economies of Food Usage F (3-0) [0.50]</td>
<td>3 credits</td>
<td>1 of FOOD<em>2010, HTM</em>2700, MCS*1000</td>
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</tr>
<tr>
<td>HTM*4050</td>
<td>Wine and Oenology W (2-2) [0.50]</td>
<td>2 credits</td>
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<tr>
<td>HTM*4090</td>
<td>Hospitality and Tourism Facilities Management and Design F,W (4-0) [0.50]</td>
<td>4 credits</td>
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<tr>
<td>HTM*4110</td>
<td>Advanced Restaurant Operations U (1-7) [0.50]</td>
<td>1 credit</td>
<td>HTM*3090</td>
<td></td>
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<tr>
<td>HTM*4130</td>
<td>Current Management Topics U (3-0) [0.50]</td>
<td>3 credits</td>
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<tr>
<td>HTM*4140</td>
<td>Current Management Topics U (3-0) [0.50]</td>
<td>3 credits</td>
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<tr>
<td>HTM*4150</td>
<td>Current Management Topics U (3-0) [0.50]</td>
<td>3 credits</td>
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<tr>
<td>HTM*4170</td>
<td>International Tourism W (3-0) [0.50]</td>
<td>3 credits</td>
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</tbody>
</table>

**HTM*4190 Hospitality and Tourism Operations Planning F,W (3-0) [0.50]**

The course examines management and organization practices as they are applied to typical hospitality and tourism operational issues. Significant decision points and sub-system interrelationships are emphasized.

- **Prerequisite(s):** 1 of ACCT*2230, BUS*2230, HTM*3070, HTM*3080
- **Co-requisite(s):** BUS*3320 or MGMT*3320
- **Restriction(s):** Registration in BCOMM:HAFA, BCOMM:HAFA:C or BCOMM:TMGT

**HTM*4200 Policy Issues in Hospitality and Tourism Management F,W (3-0) [0.50]**

An integrative course intended to draw together several disciplines in which hospitality and tourism management is based. Conceptual, analytical, and decision-making skills will be developed through an extensive exposure to case studies. (Last offering - Fall 2014)

- **Prerequisite(s):** BUS*3320 or MGMT*3320, 1 of ACCT*2230, AGEC*2230, BUS*2230, HTM*3070, HTM*3080
- **Restriction(s):** Registration in BCOMM:HAFA, BCOMM:HAFA:C or BCOMM:TMGT

**HTM*4250 Hospitality Revenue Management F (3-0) [0.50]**

This is a specialized course in hospitality revenue management that is tailored towards senior level HAFA and Tourism Management majors. The course builds upon previous courses by introducing hospitality revenue management theories, concepts and techniques. The objective of this course is to provide a solid foundation in revenue management for careers in hospitality management.

- **Prerequisite(s):** BUS*3320 or MGMT*3320, HTM*2100
- **Restriction(s):** Registration in BCOMM:HAFA, BCOMM:HAFA:C or BCOMM:TMGT

**HTM*4300 Co-operative Education Seminar F (3-0) [0.50]**

An integration of the students' academic studies with their work semester experiences provided by the co-operative program. Emphasis will be placed on students critically evaluating the application of theoretical concepts in different working environments.

- **Prerequisite(s):** Registration in semester 7 of BCOMM:HAFA:C.

**HTM*4500 Special Study in Hospitality and Tourism U (3-0) [0.50]**

The special study option is designed to provide senior undergraduate students with an opportunity to pursue an independent course of study. The topic selected will be determined by agreement between the student and the faculty member with expertise in the area.

- **Restriction(s):** Registration in BCOMM:HAFA, BCOMM:HAFA:C or BCOMM:TMGT. Instructor consent required
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMN*3020</td>
<td>Myth and Fairy Tales in Germany F (3-0) [0.50]</td>
<td>The course explores the role of mythology, fairy tales and legends in German literature and culture of the late 18th and 19th centuries. Topics may include the formation of a national identity, the allegorical fairy tale and its role in Romanticism, women and the fairy tale, the fairy tale and the socialization of children (incl. Disney), romantic mythology in music, art and literature. Authors may include Goethe, Brothers Grimm, ETA Hoffmann, Wagner. Lectures and texts are English. This course is offered in conjunction with GERM*3020. (Offered in even-numbered years.)</td>
<td>Instructor consent required.</td>
<td>5.00</td>
</tr>
<tr>
<td>HUMN*3100</td>
<td>London Studies in the Humanities W (2-3) [0.50]</td>
<td>An integrated course of studies in the Humanities (including 2 or more of theatre, visual arts, history, music, literature and philosophy) as they relate to London cultural resources. For London Semester students only.</td>
<td>Admission to London Semester.</td>
<td>5.00</td>
</tr>
<tr>
<td>HUMN*3150</td>
<td>Paris Studies in the Humanities W (2-3) [0.50]</td>
<td>An integrated course of study in the Humanities (including 2 or more of theatre, visual arts, history, music, literature and philosophy) as they relate to Paris cultural resources. For Paris Semester students only.</td>
<td>Admission to Paris Semester.</td>
<td>5.00</td>
</tr>
<tr>
<td>HUMN*3210</td>
<td>Introduction to Polish History and Culture F (6-4) [1.00]</td>
<td>The core course for the Krakow Semester consisting of three major components: 1) Polish language training, 2) a general introduction to Polish geography, politics and contemporary life and, 3) Polish history and the arts. For Krakow Semester students only.</td>
<td>Admission to Krakow Semester.</td>
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</tr>
<tr>
<td>HUMN*3220</td>
<td>Krakow Studies in the Humanities I F (3-2) [0.50]</td>
<td>An integrated course of studies in the humanities as they relate to the resources of Krakow, Poland. For Krakow Semester students only.</td>
<td>Admission to the Krakow Semester.</td>
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<tr>
<td>HUMN*3230</td>
<td>Krakow Studies in the Humanities II F (3-2) [0.50]</td>
<td>An integrated course of studies in the humanities as they relate to the resources of Krakow, Poland. For Krakow Semester students only.</td>
<td>Admission to the Krakow Semester.</td>
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</tr>
<tr>
<td>HUMN*3240</td>
<td>India Studies in the Humanities W (3-0) [0.50]</td>
<td>An integrated course of studies in the humanities as they relate to India. This course looks at selected aspects of one or more areas in the humanities, including Indian religions, philosophy, literature (in English), history, language (Hindi), art and music. For India Semester students only.</td>
<td>Admission to the India Semester.</td>
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<tr>
<td>HUMN*3300</td>
<td>Latin American Studies in the Humanities F,W (1-2) [0.50]</td>
<td>This is an integrated course of studies in the humanities as they relate to the resources of Latin America. It is offered either as preparation for the Latin America semester (in fall) or during this study abroad program (in winter).</td>
<td>Admission to the Latin America semester. Instructor consent required.</td>
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<tr>
<td>HUMN*3400</td>
<td>Renaissance Lovers and Fools W (3-0) [0.50]</td>
<td>In this course, students will read Italian Renaissance plays such as Machiavelli’s “The Mandrake” and Bibbiena’s “Calandria” with special attention to the portrayals of lovers and fools. The course will place particular emphasis on representations of class and gender relations. Additional readings in medieval literature, history, and critical theory will provide background and context for the plays. Lectures and texts are in English. This course is offered in conjunction with ITAL*3400.</td>
<td>5.0 credits</td>
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<tr>
<td>HUMN*3470</td>
<td>Holocaust &amp; WWII in German Lit. &amp; Film F (3-0) [0.50]</td>
<td>This course focuses on texts and films pertaining to World War II and the Holocaust, the development of the thoughts and the language of genocide, and the representation of the Holocaust in literature and films. The objective is to gain an understanding of the ideas and emotions underlying ethnocentrism and anti-Semitism, and to consider artistic responses to the experience of persecution and mass-murder. Lectures and discussions are in English. Students who wish for a German credit must register for GERM*3470. (Offered in odd-numbered years.)</td>
<td>5.00 credits</td>
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</tbody>
</table>
### Interdisciplinary Physical Science

#### IPS*1500 Integrated Mathematics and Physics I F (6-4) [1.00]

This is a foundational course for students in B.Sc. mathematical and physical sciences majors. The disciplines of Mathematics and Physics are taught in an integrated fashion that demonstrates how they support and enrich one another. Atomic structure, algebra and trigonometry, forces and Newton's laws, functions and graphing, differentiation, angular momentum and energy conservation, limits, integration, kinematics, and special relativity are presented in a harmonized fashion to ensure students have an improved understanding of these fundamentals.

**Prerequisite(s):** (4U Calculus and Vectors or equivalent), (4U Physics or PHYS*1020 or equivalent)

**Restriction(s):** MATH*1200, PHYS*1000. Restricted to B.Sc. students in APMS:C, BPCH, BPCH:C, BMPH, BMPH:C, CHPY, CHPY:C, CHEM, CHEM:C, MATH, NANO, NANO:C, PSCI, PHYS, PHYS:C, STAT, THPY

#### IPS*1510 Integrated Mathematics and Physics II W (6-4) [1.00]

This is the second foundational course for students in B.Sc. mathematical and physical sciences majors. The disciplines of Mathematics and Physics are taught in an integrated fashion that demonstrates how they support and enrich one another. Thermodynamics, integration, electrostatics, partial derivatives, multidimensional integrals, simple harmonic motion, Taylor's series, and spectroscopy are presented in a harmonized fashion to ensure students have an improved understanding of these fundamentals.

**Prerequisite(s):** IPS*1500

**Restriction(s):** MATH*1210, PHYS*1010. Restricted to B.Sc. students in APMS:C, BPCH, BPCH:C, BMPH, BMPH:C, CHPY, CHPY:C, CHEM, CHEM:C, MATH, NANO, NANO:C, PSCI, PHYS, PHYS:C, STAT, THPY
## Interdisciplinary Social Science

**College of Social and Applied Human Sciences**

### ISS*2000 Asia U (3-0) [0.50]
This course will survey China and/or India, noting the major historical trends, cultural factors, economic systems, and political institutions and political processes. Department of Political Science.

### ISS*2990 Introduction to Marx W (3-0) [0.50]
An interdisciplinary course designed to acquaint students with the thought of Karl Marx. Departments of History, Philosophy, Political Science and Sociology and Anthropology.

### ISS*3100 London Studies in the Social Sciences W (2-3) [0.50]
An integrated course of studies in the social sciences as they relate to the resources of London. For London Semester students only.

**Restriction(s):** Admission to the London Semester.

### ISS*3150 Paris Studies in the Social Sciences W (2-0) [0.50]
An integrated course of studies in the social sciences as they relate to the resources of Paris. For Paris Semester students only.

**Restriction(s):** Admission to the Paris Semester.

### ISS*3250 Krakow Studies in the Social Sciences I F (3-2) [0.50]
An integrated course of studies in the social sciences as they relate to the resources in Krakow, Poland. For Krakow students only.

**Restriction(s):** Admission to the Krakow Semester.

### ISS*3260 Krakow Studies in the Social Sciences II F (3-2) [0.50]
An integrated course of studies in the social sciences as they relate to the resources in Krakow, Poland. For Krakow students only.

**Restriction(s):** Admission to Krakow Semester.

### ISS*3270 India Studies in the Social Sciences W (3-0) [0.50]
An integrated course of studies in the social sciences as they relate to India. This course looks at selected aspects of one or more areas in the social, geographic, economic and political aspects of Indian society. For India Semester students only.

**Restriction(s):** Admission to the India Semester.

### ISS*3300 Latin American Studies in the Social Sciences F,W (1-2) [0.50]
This is an integrated course of studies in the social sciences as they relate to the resources of Latin America. It is offered either as preparation for the Latin America semester (in fall) or during this study abroad program (in winter).

**Restriction(s):** Admission to the Latin America semester. Instructor consent required.

### ISS*3420 Women Social and Political Theorists W (3-0) [0.50]
The writings of seventeenth and nineteenth century women social and political theorists will be explored as contributing to the development of classical and contemporary social and political theory. These women wrote on status of women and gender role issues as well as dealing with such fundamental matters as the nature and origin of society/social contract, political rights and obligations, government, constitutional change, revolution, slavery, socialism, the welfare state, imperialism and racism. An important feature of the course would be to show women theorists' contributions on central political interests and the integration of gender issues with those of class and race. Department of Sociology and Anthropology and Department of Political Science.

**Prerequisite(s):** SOAN*2111/2 or POLS*2000

**Restriction(s):** Not available to students in Anthropology, Criminal Justice & Public Policy or Sociology areas of study.
Interdisciplinary University

UNIV*3500, UNIV*3550 and UNIV*4500 are re-numbered and now appear under Environmental Design and Rural Development (EDRD)

UNIV*1150 The Politics, Science and Culture of Hunger W (0-0) [1.00]
Hunger is one of the most pressing challenges confronting societies across the globe. Incorporating the perspectives of the sciences, social sciences and humanities, the course will examine hunger as a lived experience and the challenges that face those who are working to eradicate it. Using a case-based approach students will examine issues that require consideration of interdisciplinary fields of study including: global economic and political forces; underlying scientific and technological issues particularly as they relate to agriculture; the interplay of governmental and non-governmental agencies, along with supra-governmental agencies such as the United Nations, the World Food Program and the International Monetary Fund; and the importance of culture and beliefs in shaping attitudes in the developed and developing world. (Offered through Distance Education only.)
Prerequisite(s): 2.00 credits
Restriction(s): First year students with a maximum of 5.50 credits. Instructor consent required.

UNIV*1200 First Year Seminar W (3-0) [0.50]
First Year Seminars are interdisciplinary courses designed especially for first year students. The goal of the First Year Seminar course is to provide opportunities for students to participate in small enrolment, discussion-oriented classes in their first year. Different seminar topics are offered each year in each separate course section, reflecting the particular research or professional interest of the course instructor. The seminar course counts as a free elective in the student's Schedule of Studies. For information about how the seminar courses may in some cases fulfill particular program distribution requirements, students should contact their program counsellor. A list of current and archived offerings is available by following the links on the First Year Seminars web page.
Restriction(s): Fewer than 5.00 credits.

UNIV*1250 Experiential Learning Opportunity I: Peer Helper U (0-0) [0.00]
Open only to students who have been accepted into the Peer Helper program. This 0.00 credit course recognizes the successful completion of the Peer Helper training program and a supervised field experience in an approved Peer Helper placement. A pass/fail grade will be assigned at the end of the completion of both UNIV*1250 and UNIV*1260 has been completed. Students who wish to enroll in this course should see Student Life and Career Services for more information.
Prerequisite(s): UNIV*1250
Restriction(s): Instructor consent required and acceptance in the Peer Helper program.

UNIV*1260 Experiential Learning Opportunity II: Peer Helper U (0-0) [0.00]
Open only to students who have been accepted into the Peer Helper program. This 0.00 credit course recognizes the successful completion of the Peer Helper training program and a supervised field experience in an approved Peer Helper placement. A pass/fail grade will be assigned at the end of the completion of both UNIV*1250 and UNIV*1260. Student who wish to enroll in this course should see Student Life and Career Services for more information.
Prerequisite(s): UNIV*1250
Restriction(s): Instructor consent required.

UNIV*2250 Experiential Learning Opportunity III: Peer Helper U (0-0) [0.00]
Open only to students who have been accepted into the Peer Helper program. This 0.00 credit course recognizes the successful completion of the Peer Helper training program and a supervised field experience in an approved Peer Helper placement. A pass/fail grade will not be assigned to UNIV*1250 until UNIV*1260 has been completed. Students who wish to enroll in this course should see Student Life and Career Services for more information.
Prerequisite(s): UNIV*1250, UNIV*1260
Restriction(s): Instructor consent required.

UNIV*2260 Experiential Learning Opportunity IV: Peer Helper U (0-0) [0.00]
Open only to students who have been accepted into the Peer Helper program. This 0.00 credit course recognizes the successful completion of the Peer Helper training program and a supervised field experience in an approved Peer Helper placement. A pass/fail will be assigned at the end of the completion of both UNIV*1250 and UNIV*1260. Students who wish to enroll in this course should see Student Life and Career Services for more information.
Prerequisite(s): UNIV*2250
Restriction(s): Instructor consent required.

UNIV*3000 Civic Engagement & Service Learning W (3-0) [0.50]
This course provides a unique opportunity for students to develop civic leadership skills and increase their awareness and appreciation for the social relevance of higher education through a community service-learning experience. Curricular and co-curricular learning are integrated through continued academic study and its application, modification, and critique in a community context. Students will conduct research and seminars on a selected topic while simultaneously completing a placement in a community agency appropriate to that topic.
Prerequisite(s): 9.00 credits

UNIV*3010 University Studies in London I U (3-0) [0.50]
This course is an intensive and integrated study in the arts, social sciences and/or sciences as they relate to the resources of London. This course is for London Session Semester students only.
Prerequisite(s): Admission to the London Semester.

UNIV*3020 University Studies in London II U (3-0) [0.50]
This course is an intensive and integrated study in the arts, social sciences and/or sciences as they relate to the resources of London. This course is for London Session Semester students only.
Prerequisite(s): Admission to the London Semester.

UNIV*3150 University Studies in Paris I W (2-3) [0.50]
An integrated course of study in subject areas that will vary from year to year but relate to resources in Paris.
Prerequisite(s): Admission to the Paris Semester.

UNIV*3160 University Studies in Paris II W (2-3) [0.50]
An integrated course of study in subject areas that will vary from year to year but relate to resources in Paris.
Prerequisite(s): Admission to the Paris Semester.

UNIV*3170 University Studies in Paris III W (2-3) [0.50]
An integrated course of study in subject areas that will vary from year to year but relate to resources in Paris.
Prerequisite(s): Admission to the Paris Semester.

UNIV*3210 Contemporary China F (3-3) [1.00]
The course focuses on aspects of Shanghai as exemplifying the emergence of contemporary China. The course engages perspectives from the humanities and social sciences.
Prerequisite(s): Admission to the Shanghai semester.
Restriction(s): Instructor consent required.

UNIV*3220 University Studies in Shanghai I F (3-0) [0.50]
This is an intensive and integrated course which focuses on a topic relating to Shanghai.
Prerequisite(s): Admission to the Shanghai semester.
Restriction(s): Instructor consent required.

UNIV*3230 University Studies in Shanghai II U (3-0) [0.50]
This is an intensive and integrated course which focuses on a topic relating to Shanghai.
Prerequisite(s): Admission to the Shanghai semester.
Restriction(s): Instructor consent required.

UNIV*3330 Confronting Science and Politics W (6-0) [1.00]
Using an enquiry-based approach, this course will present students with a number of critical global issues where science and politics collide. Students will be expected to research and understand the scientific, political and cultural issues that underlie the problems and identify tangible, real-world, and effective action or resolution. Students will practise oral and written forms of communication to explore issues of science, politics, culture, environment, humanitarianism and health.
Prerequisite(s): 7.50 credits including (1 of PSYC*2040, STAT*2040, STAT*2060, STAT*2080, STAT*2100)
Restriction(s): Instructor consent required.
Integrative Biology

Department of Integrative Biology

IBIO*3100 Interpreting Biodiversity I W (1.5-3) [0.50]
This is the first of two courses that explore global and local issues in biodiversity as a capstone experience for biodiversity majors. The overall goal of the course is to provide opportunities for BIOD students to engage the application of their knowledge and skills to complex problems and issues involving “real-life” biodiversity projects within academic, government, or industry spheres. The learning outcomes include the development of key skills for interpreting biodiversity and writing a research proposal and work plan that will be executed in IBIO*4100.
Prerequisite(s): 12.00 credits
Restriction(s): Enrolment restricted to BSCH: BIOD majors.

IBIO*4100 Interpreting Biodiversity II F (1.5-3) [1.00]
This is the second of two courses that explore global and local issues in biodiversity as a capstone experience for biodiversity majors. The overall goal of the course is to provide opportunities for students to engage the application of their knowledge and skills to complex problems and issues involving “real-life” biodiversity projects within academic, government, or industry spheres. The learning outcomes include the application of key skills for interpreting biodiversity, the collection and analysis of biodiversity data. This student centred experience will culminate with an oral presentation and written report to the “clients”, classmates and instructors.
Prerequisite(s): IBIO*3100
Restriction(s): Enrolment restricted to BSCH: BIOD majors.

IBIO*4500 Research in Integrative Biology I F,W (1-5) [0.75]
The student will undertake an independent research project of a practical or theoretical nature that relates either to organismal biology or the teaching of organismal biology and is conducted under the supervision of a faculty member. Students must make arrangements with both a faculty supervisor and the course coordinator at least one semester in advance. A departmental registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the project is to be completed.
Equate(s): ZOO*4490, ZOO*4500, BOT*4820
Restriction(s): Normally a minimum cumulative average of 70% in the biology courses

IBIO*4510 Research in Integrative Biology II F,W (1-5) [0.75]
The student will undertake an independent research project of a practical or theoretical nature that relates either to organismal biology or the teaching of organismal biology and is conducted under the supervision of a faculty member. Students must make arrangements with both a faculty supervisor and the course coordinator at least one semester in advance. A departmental registration form must be obtained from the course coordinator and submitted no later than the second class day of the semester in which the project is to be completed.
Prerequisite(s): IBIO*4500
Equate(s): ZOO*4510, BOT*4830
Restriction(s): Normally a minimum cumulative average of 70% in the biology courses

IBIO*4521 Thesis in Integrative Biology F (0-12) [1.00]
This course is the first part of the two semester course IBIO*4521/2. Refer to IBIO*4521/2 for course description. This is a two semester course offered over consecutive semesters F-W. When you select this course, you must select IBIO*4521 in the Fall semester and IBIO*4522 in the Winter semester. A grade will not be assigned to IBIO*4521 until IBIO*4522 has been completed.
Prerequisite(s): 12.00 credits
Restriction(s): Normally a minimum cumulative average of 75% in the biology courses

IBIO*4522 Thesis in Integrative Biology W (0-12) [1.00]
This course is the second part of the two semester course IBIO*4521/2. Refer to IBIO*4521/2 for course description. This is a two semester course offered over consecutive semesters F-W. When you select this course, you must select IBIO*4521 in the Fall semester and IBIO*4522 in the Winter semester. A grade will not be assigned to IBIO*4521 until IBIO*4522 has been completed.
Prerequisite(s): IBIO*4521
### IDEV*2500 International Development Studies W (4-0) [0.75]

This course is an introduction to a broad range of topics in international development as studied by various researchers and from perspectives of different social-science disciplines. Special emphasis will be placed on research arising from the seven areas of emphasis in the undergraduate IDS program, the integration of diverse disciplines and paradigms, and the implications for public policy. Students in the International Development major should complete this course before semester five.

**Prerequisite(s):** POLS*2080, (ANTH*1150 or ECON*1050)

**Equate(s):** IDEV*2010

**Restriction(s):** Registration in B.A. International Development major, minor or area of concentration.

### IDEV*3010 Case Studies in International Development F,W (3-0) [0.50]

This course is an in-depth examination of select case studies in international development.

**Prerequisite(s):** 10.00 credits including IDEV*2010 or IDEV*2500

**Restriction(s):** Registration in B.A. International Development major. Minimum of 68% overall cumulative average.

### IDEV*3200 Individual Work/Study in International Development S,F,W (3-0) [0.50]

This course is intended for students who seek to combine work and study in development with their academic course work. It may be used in connection with internships or work at international development agencies or other appropriate businesses and organizations (in Canada and abroad), for research and/or experience in a developing country, or for other practica or programs. Any faculty member at the University of Guelph with appropriate expertise may supervise the work/study project. In each case, the student and faculty member will agree on an outline of the work/study project and evaluation criteria. In all cases the project will involve a writing component.

**Prerequisite(s):** 10.00 credits

**Restriction(s):** Written approval of the faculty advisor for International Development.

### IDEV*4190 Regional Context S,F,W (1.5-0) [0.25]

In this course students will learn about a region that they intend to study further in an advanced work/study project (IDEV*4200) or in a structured semester abroad. It may be offered as a reading course or as a seminar.

**Prerequisite(s):** 10.00 credits including IDEV*2010 or IDEV*2500

**Restriction(s):** Written approval of the faculty advisor for International Development.

### IDEV*4200 Advanced Work/Study in International Development S,F,W (3-0) [0.75]

Individual work/study option at an advanced level. See IDEV*3200 for course description.

**Prerequisite(s):** IDEV*4190

**Restriction(s):** Written approval of the faculty advisor for International Development.

### IDEV*4500 International Development Seminar F,W (3-0) [0.75]

This course brings together students in international development in their final year of study to examine key debates and to integrate knowledge from different areas of emphasis in the specialization. Students draw from a variety of disciplinary and inter-disciplinary perspectives in lectures, text-based seminars and in reaction to guest speakers. In addition, students develop and present research projects which focus theoretical insight on practical concerns.

**Prerequisite(s):** 15.00 credits

**Restriction(s):** Registration in B.A. International Development major. Minimum of 68% overall cumulative average. Written approval of the faculty advisor for International Development.
## Italian Studies

**School of Languages and Literatures**

Note: Literary texts are, at all levels, studied in the original language. Students registering in these courses will be expected to have the appropriate knowledge.

### ITAL*1060 Introductory Italian I (F-3-1) [0.50]

A beginning course in Italian providing the fundamentals of grammar, structure and idiom. Introduction to aspects of Italian life and culture through audio-visual aids. (This course may not be taken by students who have credit for 12U Italian or equivalent.)

**Restriction(s):** This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

### ITAL*1070 Introductory Italian II (F-3-1) [0.50]

This course is a continuation of ITAL*1060. In addition to basic grammar and composition, texts from contemporary culture are introduced. (This course may not be taken by students who have OAC Italian or equivalent.)

**Prerequisite(s):** ITAL*1060

### ITAL*2050 Introduction to Literature (W-2-1) [0.50]

This course introduces students to the scholarly study of literature, including critical commentaries. The course focuses on the notion of a European literary tradition in which works by German and Italian authors are key. The lectures are in English, but students taking the course under this code will read texts originally written in Italian in the original language and German works in Italian translation. Students will submit some work in Italian.

**Prerequisite(s):** ITAL*2090

**Restriction(s):** GERM*2050

### ITAL*2090 Intermediate Italian F (5-0) [1.00]

An intensive language course that continues the grammar begun at the introductory level while introducing additional speaking, listening, and writing practice.

**Prerequisite(s):** ITAL*1070

**Restriction(s):** ITAL*2060, ITAL*2070

### ITAL*2100 Renaissance Lovers and Fools W (3-1) [0.50]

In this course, students will read Italian Renaissance plays such as Machiavelli's "The Mandrake" and Bibbiena's "Calandria" with special attention to the portrayals of lovers and fools. The course will place particular emphasis on representations of class and gender relations. Additional readings will provide background and context for the plays. Lectures and texts are in English. Students registered in ITAL*2100 will meet a fourth hour per week to discuss texts in Italian. This course is offered in conjunction with HUMN*2100. (Offered in odd-numbered years.)

**Prerequisite(s):** ITAL*1070 or permission of instructor

**Restriction(s):** ITAL*3280, HUMN*2100

### ITAL*3060 Advanced Italian F (3-0) [0.50]

This course will combine Italian grammar, composition, and translation with Italian literature and film. While addressing aspects of modern and contemporary Italian literature, history and culture, the course will teach students to understand spoken Italian, to converse, and to communicate in written Italian at an advanced level.

**Prerequisite(s):** ITAL*2070 or ITAL*2090

### ITAL*3150 Medieval Italian Literature F (3-0) [0.50]

A study of Dante, Petrarch, and Boccaccio. (Offered in even-numbered years.)

**Prerequisite(s):** ITAL*2070 or ITAL*2090

### ITAL*3200 Novels of Resistance W (3-0) [0.50]

In this course, students will read Italian novels such as Alberto Moravia's "Gli indifferenti", Italo Calvino's "Il sentiero dei nidi di ragno", and Dacia Maraini's "Donna in guerra" with particular attention to the theme of resistance. The course will consider representations of fascism, patriarchy, and the bourgeois ethos and the ways in which writers envision the possibility of resistance to them. (Offered in even-numbered years.)

**Prerequisite(s):** 1 of ITAL*2070, ITAL*2090, permission of instructor

**Restriction(s):** ITAL*2350

### ITAL*3400 Renaissance Lovers and Fools W (3-0) [0.50]

In this course, students will read Italian Renaissance plays such as Machiavelli's "The Mandrake" and Bibbiena's "Calandria" with special attention to the portrayals of lovers and fools. The course will place particular emphasis on representations of class and gender relations. Additional readings in medieval literature, history, and critical theory will provide background and context for the plays. Lectures and texts are in English. Students registered in ITAL*3400 will meet a fourth hour per week to discuss texts in Italian. This course is offered in conjunction with HUMN*3400.

**Prerequisite(s):** ITAL*2090

**Co-requisite(s):** HUMN*3400

**Restriction(s):** ITAL*2100, HUMN*2100

### ITAL*3950 Topics in Italian Literature W (3-0) [0.50]

Aspects of Italian literature. Each offering will treat a particular topic such as early texts in the Vernacular, Commedia dell`Arte, Eighteenth-Century Drama, realism in Italian Literature, the poetry of Montale, Ungaretti, and Saba. (Offered in even-numbered years.)

**Prerequisite(s):** ITAL*3060

### ITAL*3960 Topics in Italian Literature F (3-0) [0.50]

Each offering will treat a particular topic such as early texts in the Vernacular, Commedia dell`Arte, Eighteenth-Century Drama, realism in Italian Literature, the poetry of Montale, Ungaretti, and Saba. (Offered in odd-numbered years.)

**Prerequisite(s):** ITAL*3060

### ITAL*3970 Topics in Italian Literature W (3-0) [0.50]

Each offering will treat a particular topic such as early texts in the Vernacular, Commedia dell`Arte, Eighteenth-Century Drama, realism in Italian Literature, the poetry of Montale, Ungaretti, and Saba. (Offered in odd-numbered years.)

**Prerequisite(s):** ITAL*3060

### ITAL*3980 Research Paper in Italian Studies F,W (3-0) [0.50]

This is the equivalent of a semester course. A research project on some aspect of Italian language, literature, or thought. The topic must be approved by the section; the paper will be written under the regular guidance of a faculty advisor.

**Prerequisite(s):** Restricted to the 6th semester in the Italian honours program.
Landscape Architecture

School of Environmental Design and Rural Development

LARC*1100 Design and Communications Studio F (3-3) [0.75]
An introduction to the physical design professions with emphasis on the role of landscape architects. Emphasis on development of design awareness, process, communication skills and creativity.
Prerequisite(s): Registration in the B.L.A. program.

LARC*1950 History of Cultural Form I F (3-0) [0.50]
This course explores the cultural form expressed in landscapes from ancient times to the present.

LARC*2020 Design Studio W (2-4) [0.75]
An examination of the theory, process and vocabulary of spatial design. An exploration of the social, psychological, and behavioural forces a designer must respond to. An introduction to landscape analysis.
Prerequisite(s): LARC*1100
Restriction(s): Registration in the B.L.A. program.

LARC*2100 Landscape Analysis F (2-2) [0.50]
A study of biophysical factors and their influence on design. Including soils, climate, vegetation, hydrology, and fauna. Natural and cultural systems interpretation, site assessment methods, and data presentation techniques will be outlined. Students will formulate and conduct site assessments that include resource inventories and the analysis for land use suitability.
Prerequisite(s): LARC*2020
Co-requisite(s): LARC*3040 or registration in the U.L.M. B.Sc. (Agr.) program and 5.00 credits

LARC*2230 Planting Design W (1-2) [0.50]
This course covers the visual and physical characteristics of plants and their use. Students will study design theory and its application at a site specific scale and the use of plants in a wide range of applications.
Co-requisite(s): LARC*2020
Restriction(s): Registration in the B.L.A. Program.

LARC*2240 Plants in the Landscape F (1-2) [0.50]
This course explores the identification and cultural requirements of native and introduced plants in cultivated and naturalized landscapes from a design perspective.
Prerequisite(s): LARC*2230
Restriction(s): LARC*2340 Registration in the B.L.A. Program.

LARC*2410 Site Engineering F (3-1) [0.50]
A focus on contour grading to facilitate circulation, stormwater runoff, and design intent. Aspects of surveying, plotting, as well as runoff and cut and fill calculations.
Prerequisite(s): LARC*2020, LARC*2420

LARC*2420 Materials and Techniques W (3-0) [0.50]
The study of materials commonly used for landscape construction. Specification of procedures and materials for contractual purposes. Detail drafting.
Prerequisite(s): LARC*1100

LARC*2820 Urban and Regional Planning W (3-0) [0.50]
Introduction to the evolution and history of planning and its conceptual base. A study of the theoretical foundations of planning. Emphasis on the Canadian scene and on Canadian planning literature.

LARC*3040 Site Planning and Design Studio F (2-4) [0.75]
Application of the site planning process, including programming, site analysis, functional analysis and diagramming. Application of design theory and landscape analysis to site design.
Prerequisite(s): LARC*2020
Co-requisite(s): LARC*2100, LARC*2240

LARC*3050 Landscape Architecture I W (2-4) [0.75]
Lectures and projects emphasizing the integration of design theory, skills and knowledge using site and urban design projects. Highlighting the use of contemporary history.
Prerequisite(s): LARC*3040

LARC*3060 Landscape Architecture II F (2-4) [0.75]
Application of the landscape architectural design process to conservation, development and rehabilitation of landscapes. Projects at an intermediate scale focusing on biophysical, cultural and visual resources as primary design determinants. Emphasis on secondary research, analysis, program development, alternative concepts and design master planning.
Prerequisite(s): LARC*3050

LARC*3070 Landscape Architecture III F (2-6) [1.00]
Exercises in regional scale design and master planning to provide an understanding of the integrative design process that considers ecological, technological, socio-economic, human and aesthetic factors in the land development process. Projects focus on land planning, community design, urban design, and public involvement and communication.
Prerequisite(s): LARC*3060

LARC*3320 Principles of Landscape Ecology F (3-0) [0.50]
This course offers an integrated approach to understanding the functioning of landscapes. The emerging theories, concepts and methodologies of landscape science and their application to landscape and environmental management will be discussed.
Co-requisite(s): 1 of BIOL*2060, BIOL*3110, GEOG*2110, LARC*2100
Restriction(s): ENV*3320

LARC*3430 Landscape Construction I W (2-4) [0.50]
Lectures and studio exercises that integrate construction documentation with design. The technical procedures needed to direct design implementation including layout, grading, utility design, and planting plans.
Prerequisite(s): LARC*2410

LARC*3440 Landscape Construction II F (2-4) [0.75]
Production of construction drawings, documents and cost estimates using computer and manual techniques.
Prerequisite(s): LARC*3430
Co-requisite(s): LARC*3060

LARC*3500 Independent Study S,F,W (0-6) [0.50]
Each student establishes, in consultation with the faculty member chosen, the content of special study within the area of expertise of that instructor.
Prerequisite(s): LARC*3040

LARC*4090 Seminar W (3-0) [0.50]
An integrated overview of professional issues involving practice, ethics, environmental concerns, government policy, research needs and professional responsibilities to society. Emphasis on writing and oral presentations.
Prerequisite(s): LARC*3060

LARC*4510 Honours Thesis F (3-0) [0.50]
Students will select significant problems related to landscape architecture and explore the scholarship related to problem identification and resolution. The aim of the course is to allow students to integrate knowledge and skills acquired in preceding courses and produce a major paper.
Prerequisite(s): LARC*3050, LARC*3440

LARC*4520 Park and Recreation Administration W (3-0) [0.50]
A study of the major objectives, policies and administrative practices of the principal park and recreation agencies at various levels of government, with an emphasis on trends and implications for future roles and administrative policies of these agencies. (Offered in odd-numbered years.)
Prerequisite(s): 1.00 credits at the 2000 level in social sciences or three semesters of the B.L.A. program

LARC*4610 Professional Practice F (3-0) [0.50]
Lectures and assignments dealing with professional ethics, organizations, contract law and procedures, relationships with clients, contractors and professional practitioners, office procedure and professional promotion practices and trends.
Prerequisite(s): LARC*3050

LARC*4620 Internship in Landscape Architecture S,F,W (0-10) [1.00]
An experiential learning opportunity requiring professional office experience and faculty supervision under program regulations. Actual work experience for academic credit. Students are required to submit a project or paper as part of the course requirements.
Prerequisite(s): LARC*3060, LARC*3440

LARC*4710 Integrative Design Studio W (2-6) [1.00]
In this capstone design studio students integrate the skills and knowledge obtained in previous courses to produce a comprehensive final design project relating to a significant social and environmental problems. Students are encouraged to select problems that require an interdisciplinary approach.
Prerequisite(s): LARC*4510

LARC*4730 Special Study in Landscape Architecture S,F,W (0-4) [0.50]
Supervised independent study involving competitions, special projects, modules, and other formats.
Prerequisite(s): LARC*3050
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Co-requisite(s)</th>
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<tbody>
<tr>
<td>LARC*4740</td>
<td>Case Studies S,F,W (0-6) [0.50]</td>
<td>Travel and field studies of selected projects as approved by a faculty member. Students are required to submit a project or paper.</td>
<td>LARC*3040</td>
</tr>
</tbody>
</table>
## Latin

**School of Languages and Literatures**

*Note: Literary texts are, at all levels, studied in the original language. Students registering in these courses will be expected to have the appropriate knowledge. Higher level courses in Latin are available as language modules attached to selected Classical Studies courses which are taken as double-weighted courses. (See Classical Studies course descriptions.)*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>LAT*1100</td>
<td>Preliminary Latin I</td>
<td>F, (3-0) [0.50]</td>
<td>A beginning course in Latin providing the fundamentals of structure and grammar. (This course may not be taken by anyone who has Grade 12 Latin).</td>
</tr>
<tr>
<td>LAT*1110</td>
<td>Preliminary Latin II</td>
<td>W, (3-0) [0.50]</td>
<td>A continuation of LAT*1100.</td>
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<td>Prerequisite(s):</td>
<td>LAT*1100 or Grade 12 Latin</td>
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<tr>
<td>LAT*2000</td>
<td>Latin Literature</td>
<td>F, (3-0) [0.50]</td>
<td>A course in Latin literature based on relevant texts.</td>
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<tr>
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<td>Prerequisite(s):</td>
<td>Grade 12 Latin or LAT*1110</td>
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<tr>
<td>LAT*4100</td>
<td>Directed Readings in Latin Literature</td>
<td>F, (3-0) [0.50]</td>
<td>A reading course in Latin Literature designed according to the needs and the interests of the individual student.</td>
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<tr>
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<td>Prerequisite(s):</td>
<td>1 of CLAS<em>3060, CLAS</em>3120, CLAS*3300</td>
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<tr>
<td>LAT*4150</td>
<td>Research Paper: Latin</td>
<td>F, W, (3-0) [0.50]</td>
<td>A major essay on an area of study to be determined in consultation with the Classics Faculty in the School.</td>
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<tr>
<td></td>
<td>Prerequisite(s):</td>
<td>CLAS<em>3060 or CLAS</em>3120</td>
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<td>Course Code</td>
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<tr>
<td>LING*1000</td>
<td>Introduction to Linguistics W (3-0)</td>
<td>[0.50]</td>
<td>The nature of language. An elementary survey of linguistic disciplines. Phonetics, morphology, syntax, semantics, language, and society.</td>
</tr>
</tbody>
</table>
MGMT*1000 Introduction to Business F (4-0) [1.00]

This course is intended for B.Comm. students in semester one. It provides students with an understanding of the evolution of forms of business organization and their role in social and economic development. The main focus is on current economic, social and environmental issues that impact business organizations and which, in turn, are impacted by business decisions. Ethical considerations and the concept of sustainability are essential components. Students develop oral and written communication skills in small seminar groups. School of Hospitality and Tourism Management.

Restriction(s): 
Registration in B.Comm. and fewer than 7.50 credits.

BUS*3320 or MGMT*3320 
Restricted to students in B.Comm. Instructor consent required.

BUS*4240 
This is a Priority Access Course. Some restrictions may apply during Registration in BCOMM programs, BA.MEF, BA.ID area of emphasis Restricted to students in B.Comm. Instructor consent required.

14.50 credits
1 of ACCT*2230, AGEC*2230, BUS*2230, HAFA*3070, HTM*4270
14.00 credits, minimum 70% cumulative average

Priority Access course. Enrolment may be restricted to particular students with an opportunity to pursue an applied course of study while engaging with the local community. The topic selected will be determined in agreement between the student and the faculty member with expertise in the area. Department of Marketing and Consumer Studies.

Prerequisite(s): 
10.00 credits, minimum 70% cumulative average
Restriction(s): 
Restricted to students in B.Comm. Instructor consent required.

MGMT*4020 Interdisciplinary Food Product Development I F (3-3) [0.50]

This is an interdisciplinary course that involves management, food science and human health and nutrition majors. This course requires interdisciplinary teams of students to develop new food products, services and business ventures for the agricultural and food industries. Processes include analyzing, planning, coordinating and implementing information required for the conception, promotion and distribution of new food products and marketing ideas designed to create and maintain beneficial exchanges between food and agricultural industries while meeting the expectations and demands of consumers and the economy.

Prerequisite(s): 
MGMT*4020, minimum 70% cumulative average
Restriction(s): 
FOOD4270. Students in BCOMM, BSC:FOOD and BSC:NANS majors. Instructor consent required.

MGMT*4050 Applied Community Project I F,W (3-0) [0.50]

Offered through the Centre for Business and Social Entrepreneurship (CBaSE), the project-based independent study option is designed to provide senior undergraduate students with an opportunity to pursue an applied course of study while engaging with the local community. The topic selected will be determined in agreement between the student and the faculty member with expertise in the area. Department of Marketing and Consumer Studies.

Prerequisite(s): 
10.00 credits, minimum 70% cumulative average
Restriction(s): 
Restricted to students in B.Comm. Instructor consent required.

MGMT*4060 Applied Community Project II F,W (3-0) [0.50]

Offered through the Centre for Business and Social Entrepreneurship (CBaSE), the project-based independent study option is designed to provide senior undergraduate students with an opportunity to pursue an applied course of study while engaging with the local community. The topic selected will be determined in agreement between the student and the faculty member with expertise in the area. Department of Marketing and Consumer Studies.

Prerequisite(s): 
10.00 credits, minimum 70% cumulative average
Restriction(s): 
Restricted to students in B.Comm. Instructor consent required.

MGMT*4260 International Business W (3-3) [0.50]

This course covers international business and deals with the strategic and functional areas of management in the international business environment. This course examines the factors that shape strategic management outside a firm’s domestic markets. It uses a mix of readings, lectures, case studies, individual and group projects. Department of Business.

Prerequisite(s): 
14.50 credits
Restriction(s): 
Priority Access course. Enrolment may be restricted to particular programs or specializations. See department for more information.
Marketing and Consumer Studies

Department of Marketing and Consumer Studies

For courses without semester designations, please check with the department. Advance schedules are available in the department.

MCS*1000 Introductory Marketing S,F,W (3-0) [0.50]
This course covers the marketing of both products and services. Students will be introduced to the theoretical concepts through lectures and class discussions and have the opportunity to apply these concepts through case analysis and discussion. (Also offered through Distance Education format.)

Equate(s): COST*1000
Restriction(s): Registration in B.Comm. programs, BA MKMN minor, BA BADM minor, BA European Studies area of emphasis in European Business Studies, or BBRM EQM. This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information. This course may not be taken for credit subsequent to receiving credit in 1 of AGECS*4370, FARE*4370, HTM*3080.

MCS*2000 Business Communication in a Changing World F (3-0) [0.50]
This course provides an overview of business communication by reviewing and discussing key issues (such as ethics and globalization), and the components of a business plan. Weekly lectures are supplemented by discussions of business cases and hand-in assignments designed to introduce students to basic business communication skills.

Prerequisite(s): 4.00 credits including MCS*1000
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information. Not available to students registered in B.Comm program or CIS majors and minors.

MCS*2020 Marketing Information Management F,W (3-0) [0.50]
In this course students are introduced to the concepts and principles of information acquisition, manipulation and management as relevant to organizational decision-making. Experience in the evaluation of information technology applications used in organizations is provided. (Also offered through Distance Education format.)

Prerequisite(s): 4.00 credits including MCS*1000
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

MCS*2100 Personal Financial Management S,F,W (3-0) [0.50]
This introductory course is designed to help students develop and achieve their personal goals in financial management. (Offered through Distance Education only.)

Prerequisite(s): 5.00 credits
Equate(s): COST*2100

MCS*2600 Fundamentals of Consumer Behaviour F,W (3-0) [0.50]
Organizations survive and achieve their goals by satisfying the needs and wants of consumers as well as or better than their competitors. This course examines consumer behaviours, the economic, social, cultural and psychological factors related to consumer behaviours, the evolution and change in behaviours and relationships, and the ways in which consumers respond to stimuli employed in the marketing of products, services and ideas.

Prerequisite(s): (1 of HAFAS*1000, HTM*1000, MCS*1000), (1 of HROB*2100, PSYC*1000, PSYC*2100). Although not required, it is recommended that students take PSYC*1000 prior to MCS*2600.
Restriction(s): Registration in B.Comm. programs, BA MKMN minor, or BA European Studies area of emphasis in European Business Studies. This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

MCS*3000 Advanced Marketing F (3-0) [0.50]
This course provides students with an opportunity to extend their knowledge of the marketing principles and strategies they learned in MCS*1000 to develop a marketing plan and to explore sales as a career.

Prerequisite(s): 10.00 credits including MCS*1000
Restriction(s): Not available to B.Comm. students registered in MKMN, MKMN:C, AGBU, AGBU:C majors.

MCS*3010 Quality Management W (3-0) [0.50]
Lectures will include general concepts and expectations of quality assurance from the consumer, government, managerial and technological points of view and discuss the relationship of national and international groups concerned with quality assurance. Seminars apply concepts to selected products and services.

Prerequisite(s): 10.00 credits including (1 of ECON*2740, STAT*2040, STAT*2060, STAT*2080)
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

MCS*3030 Research Methods F (3-0) [0.50]
This course examines the concepts, principles and practices for consumer, market and product development research processes. Topics include research problem definition, research objectives, research design, measurement, sampling methods, execution and research management, analysis and interpretation, and report writing. (Also offered through Distance Education format.)

Prerequisite(s): ECON*2740 or STAT*2060
Restriction(s): Registration in B.Comm. MKMN, MKMN:C, REH, REH:C, or the BA MKMN minor. This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

MCS*3040 Business and Consumer Law S,F,W (3-0) [0.50]
This course introduces students to statutory and common law concerning business and consumer transactions. An overview of the laws of contracts and torts forms the basis of business and producer/consumer relationships. Discussion topics include sale of goods and consumer protection legislation; debtor-creditor relations; competition law; intellectual property rights and manufacturers' product liability. (Also offered through Distance Education format.)

Prerequisite(s): 10.00 credits
Restriction(s): Registration in B.Comm. program, BA BADM minor, or BA European Studies area of emphasis in European Business Studies. This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

MCS*3080 The Corporation and Society F (3-0) [0.50]
This course is designed to take students through an academic critique of global corporations in the societies and natural environmental in which they operate. The course will explore current and prospective models for operating in society and the natural environment.

Prerequisite(s): 10.00 credits
Restriction(s): Registration in B.Comm. program.

MCS*3500 Market Analysis and Planning W (3-0) [0.50]
This course teaches students decision making theory and the methods of analysis that support decision making in the marketing discipline. Topics include customer, competitor and market analysis and methods such as forecasting and decision modeling.

Prerequisite(s): 10.00 credits including ECON*1050, (MATH*1000 or MATH*1030), MCS*2600, MCS*3030, (ECON*2740, STAT*2060)
Equate(s): MCS*3610
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

MCS*3600 Consumer Information Processes F,W (3-0) [0.50]
This course provides an in-depth treatment of information processing research and theories as they relate to consumer judgement and choice. Components of theory addressed include: attention and perception, motivation, processing capacity, encoding and memory storage, retrieval and decision processes. Applications to marketplace policy and strategy are discussed.

Prerequisite(s): 15.00 credits including MCS*2600, MCS*3030
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

MCS*3620 Marketing Communications F,W (3-0) [0.50]
This course covers concepts of communication management as practiced by organizations in all economic sectors. Communication management principles are applied to the design and evaluation of communication programs.

Prerequisite(s): 10.00 credits including MCS*1000, MCS*2600
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

MCS*3820 Real Estate Development W (3-0) [0.50]
This course introduces the student to the real estate development process, providing an overview from the project idea to the cursory feasibility stage. The steps in development planning that will be investigated are analysis, design, and evaluation. Topics include evaluating development potential, land acquisition, site planning, economic feasibility studies, approval processes, construction, project management, and marketing phases. The construction of both single family housing and larger buildings is examined. (Last offering - Winter 2013)

Prerequisite(s): MCS*1820 or REAL*1820
Restriction(s): MCS*4860 This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.
XII. Course Descriptions, Marketing and Consumer Studies

**MCS*4020 Research in Consumer Studies U (3-0) [0.50]**
This course provides the opportunity for an independent investigation of a pertinent topic in consumer studies. Registration requires departmental approval.

Prerequisite(s): 15.00 credits including MCS*3030
Restriction(s): Registration in B.Comm. MKMN or B.Comm. MKMN:C. Instructor consent required.

**MCS*4040 Management in Product Development F (3-0) [0.50]**
The major components of this course are new product strategy formulation, the role of technical and market research, the analysis of opportunities, management of development processes, product launches, government and regulatory controls.

Prerequisite(s): 10.00 credits including MCS*1000, MCS*2600
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

**MCS*4050 The Evolution of Capitalism: A Canadian Perspective F (3-0) [0.50]**
This course offers a Canadian perspective on capitalism as an evolving process of creative destruction; implications for Canadian culture and the allocation of economic, political, and social power; effects on education, the capacity of governments to govern, and societal notions of what constitutes the public good.

Prerequisite(s): 15.00 credits including ECON*1050, ECON*1100
Restriction(s): Registration in B.Comm. program.

**MCS*4100 Entrepreneurship F (3-0) [0.50]**
This course examines the role and effect of small business in Canada, and, in doing so, helps marketing students appreciate the challenges involved in having full responsibility for a business and/or for creatively moving a business forward. The course focuses on the analysis of entrepreneurial skills and, through the development of the business plan, the steps involved in starting a new venture or increasing the size of a business.

Prerequisite(s): 15.00 credits including MCS*3500
Restriction(s): Registration in B.Comm. MKMN or B.Com. MKMN:C.

**MCS*4300 Marketing and Society W (3-0) [0.50]**
This course focuses on how the dissemination of marketing knowledge can influence society through the decisions made by public policy makers, corporate decision makers and non-profit marketers. It also covers how the marketing decisions made and actions taken by corporate, non-profit and public sector decision makers can affect society. As the theme of ‘reciprocal influence’ is developed, both direct and indirect influences of marketing knowledge and marketing decisions are pursued.

Prerequisite(s): 15.00 credits including MCS*2600
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

**MCS*4370 Marketing Strategy F,W (3-0) [0.50]**
This course focuses on the decision-making role of the marketing manager who is responsible for formulating the strategic marketing plan. The theory of selecting market target(s) for the firm’s product and/or services and the development of the marketing mix (product, price, promotion, distribution) with the aid of market research and computerized information systems is covered.

Prerequisite(s): 15.00 credits including MCS*3030, MCS*3500
Equate(s): AGEC*4370, FARE*4370
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

**MCS*4400 Pricing Management F (3-0) [0.50]**
The objective of this course is to provide a useful conceptual framework as well as analytical techniques that can be applied in managing pricing functions. Topics to be covered include pricing strategies, tactical issues related to pricing, pricing methods, treatment of costs for pricing, consideration of competition, legal limitations and role of price in customer buying decisions for both consumer and industrial goods and services.

Prerequisite(s): 10.00 credits including (ECON*3740 or MCS*3030)
Restriction(s): MCS*3100, This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

**MCS*4600 International Marketing F,W (3-0) [0.50]**
This course examines the study of marketing in a global context with specific emphasis on the strategic implications of marketing in different country cultures. Included are the global marketing environment and the competitive challenges and opportunities confronting today’s international marketers, the cultural environment of global marketing, the assessment of global market opportunities and the development of global marketing strategies.

Prerequisite(s): 10.00 credits including MCS*3030
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

**MCS*4810 Real Estate and Housing Project W (3-0) [0.50]**
This course is a capstone course meant to bring together concepts from all other Real Estate and Housing courses. It deals with the development, redevelopment and renewal of housing and real estate services. Students will complete a project that addresses an issue in the real estate or housing sector, applying knowledge of development, market analysis, affordability, financing and government regulation. (Last offering - Winter 2014)

Prerequisite(s): 15.00 credits including [ MCS*3810 or REAL*3810], MCS*3820, (MCS*4820 or REAL*4820]
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

**MCS*4910 Topics in Consumer Studies U (3-0) [0.50]**
This course provides a lecture-discussion or seminar on a selected topic in consumer studies to be conducted by faculty with expertise in the area. Students should check with the department to determine what topic, if any, will be offered during a semester. Alternatively, they can ask a faculty member in MCS to supervise them as they study a topic or do a project of interest.

Prerequisite(s): 15.00 credits including MCS*2600
Restriction(s): Registration in the B. Comm. MKMN or REH major. Instructor consent required.

**MCS*4920 Topics in Consumer Studies U (3-0) [0.50]**
This course provides a lecture-discussion or seminar on a selected topic in consumer studies to be conducted by faculty with expertise in the area. Students should check with the department to determine what topic, if any, will be offered during a semester. Alternatively, they can ask a faculty member in MCS to supervise them as they study a topic or do a project of interest.

Prerequisite(s): 15.00 credits including MCS*2600
Restriction(s): Registration in the B. Comm. MKMN or REH major. Instructor consent required.

**MCS*4950 Consumer Studies Practicum W (3-0) [0.50]**
The practicum provides students with supervised experience in developing marketing plans or working on consumer studies projects.

Prerequisite(s): 15.00 credits including MCS*3030, MCS*3500, MCS*3620 and a cumulative average of 70%
Restriction(s): Registration in B.Comm. MKMN or B.Comm. MKMN:C.
Mathematics

Department of Mathematics and Statistics

Suggested initial course sequence:

1. For students with 4U or OAC Calculus and expecting to pursue further studies in mathematics or the physical sciences: MATH*1200, MATH*1210.
2. For students interested in applications to the biological sciences: MATH*1080, MATH*2080.
3. For students not expecting to pursue further studies in mathematics: MATH*1030, one STAT*XXXX course.

MATH*1030 Business Mathematics F,W (3-1) [0.50]

This course is intended for business and economics students. The topics covered include lines, systems of linear equations, convex sets, and basic algebra including exponential and logarithmic functions. Calculus covered in the course includes limits, continuity, sequences and series, derivatives, higher order derivatives, curve sketching, linear approximations, optimization, and integration. (Also offered through Distance Education format.)

Prerequisite(s): 4U Advanced Functions
Restriction(s): MATH*1000, MATH*1080, MATH*1200. Not available to students registered in the BSC program.

MATH*1050 Introduction to Mathematical Modeling U (3-1) [0.50]

This course applies non-calculus techniques to model "real world" problems in business, psychology, sociology, political science and ecology. The mathematical topics introduced include graphs and directed graphs, linear programming, matrices, probability, games and decisions, and difference equations. Mathematics majors may not take this course for credit.

Equate(s): CIS*1900
Restriction(s): Not available to students registered in BCOMP programs or CIS.

MATH*1080 Elements of Calculus I F,W (3-1) [0.50]

This course provides an introduction to the calculus of one variable with emphasis on mathematical modelling in the biological sciences. The topics covered include elementary functions, sequences and series, difference equations, differential calculus and integral calculus.

Prerequisite(s): 1 of 4U Advanced Functions, 4U Advanced Functions and Calculus
or equivalent
Restriction(s): MATH*1000, MATH*1030, MATH*1200

MATH*1200 Calculus I F (3-1) [0.50]

This is a theoretical course intended primarily for students who expect to pursue further studies in mathematics and its applications. Topics include inequalities and absolute value; compound angle formulas for trigonometric functions; limits and continuity using rigorous definitions; the derivative and derivative formulae (including derivatives of trigonometric, exponential and logarithmic functions); Fermat's theorem; Rolle's theorem; the mean-value theorem; applications of the derivative; Riemann sums; the definite integral; the fundamental theorem of calculus; applications of the definite integral; the mean value theorem for integrals.

Prerequisite(s): 1 of 4U Calculus and Vectors, 4U Advanced Functions and Calculus or Grade 12 Calculus
Restriction(s): MATH*1000, MATH*1080

MATH*1210 Calculus II W (3-1) [0.50]

This course is a continuation of MATH*1200. It is a theoretical course intended primarily for students who need or expect to pursue further studies in mathematics, physics, chemistry, engineering and computer science. Topics include inverse functions, inverse trigonometric functions, hyperbolic functions, indeterminate forms and H'opital's rule, techniques of integration, parametric equations, polar coordinates, Taylor and Maclaurin series; functions of two or more variables, partial derivatives, and if time permits, an introduction to multiple integration.

Prerequisite(s): 1 of MATH*1000, MATH*1080, MATH*1200
Restriction(s): MATH*2080

MATH*2000 Set Theory F (3-1) [0.50]

This course introduces the theory of sets and emphasizes formal mathematical proof. Topics include relations and functions, number systems including formal properties of the natural numbers, integers, and the real and complex numbers. Equivalence relations and partial and total orders are introduced. The geometry and topology of the real number line and Cartesian plane are introduced. Techniques of formal proof are introduced including well-ordering, mathematical induction, proof by contradiction, and proof by construction.

Prerequisite(s): 0.50 credits in mathematics at the university level

MATH*2080 Elements of Calculus II F,W (3-1) [0.50]

This course will expand on integration techniques, and introduce students to difference and differential equations, vectors, vector functions, and elements of calculus of two or more variables such as partial differentiation and multiple integration. The course will emphasize content relevant to analyzing biological systems, and methods will be illustrated by application to biological systems.

Prerequisite(s): 1 of IPS*1500, MATH*1000, MATH*1080, MATH*1200
Restriction(s): IPS*1510, MATH*1210

MATH*2130 Numerical Methods W (3-2) [0.50]

This course provides a theoretical and practical introduction to numerical methods for approximating the solution(s) of linear and nonlinear problems in the applied sciences. The topics covered include: solution of a single nonlinear equation; polynomial interpolation; numerical differentiation and integration; solution of initial value and boundary value problems; and the solution of systems of linear and nonlinear algebraic equations.

Prerequisite(s): 1 of IPS*1510, MATH*1210, MATH*2080

MATH*2150 Applied Matrix Algebra S,F,W (3-1) [0.50]

This course provides an introduction to linear algebra in Euclidean space. Topics covered include: N-dimensional vectors, dot product, matrices and matrix operations, systems of linear equations and Gaussian elimination, linear independence, subspaces, basis and dimension, matrix inverse, matrix rank and determinant, eigenvalues, eigenvectors and diagonalization. Applications of these topics, including least squares fitting, will be included. (Also offered through Distance Education format.) MATH*2150 is not intended for Mathematics majors.

Prerequisite(s): 1 of a 4U mathematics credit or a first year university mathematics credit
Restriction(s): MATH*2160

MATH*2160 Linear Algebra I F (3-0) [0.50]

This course provides an introduction to linear algebra and vector spaces and emphasizes formal mathematical proof. Topics covered include: N-dimensional vectors, inner products, matrices and matrix operations, systems of linear equations and Gaussian elimination, the basic theory of vector spaces and linear transformations, matrix representations of linear transformations, change of basis matrices, eigenvalues, eigenvectors and diagonalization, inner product spaces, quadratic forms, orthogonalization and projections.

Prerequisite(s): 1 of IPS*1500 or MATH*1200
Restriction(s): MATH*2150

MATH*2170 Differential Equations I W,S (3-1) [0.50]

This course introduces the theory and application of differential equations, which are used to describe phenomena in a wide range of areas. First order equations are studied extensively as well as linear equations of second and higher order. Other topics include difference equations, phase plane analysis, and an introduction to power series methods and Laplace transforms.

Prerequisite(s): 1 of IPS*1510, MATH*1210, MATH*2080
Restriction(s): MATH*2270

MATH*2200 Advanced Calculus I F (3-0) [0.50]

The topics covered in this course include infinite sequences and series, power series, tests for convergence, Taylor's theorem and Taylor series for functions of one variable, planes and cylindrical surfaces, limits, and continuity, differentiability of functions of two or more variables, partial differentiation, directional derivatives and gradients, tangent planes, linear approximation, Taylor's theorem for functions of two variables, critical points, extreme value problems, implicit function theorem, Jacobians, multiple integrals, and change of variables.

Prerequisite(s): 1 of IPS*1510, MATH*1210, MATH*2080

MATH*2210 Advanced Calculus II W (3-0) [0.50]

This course continues the study of multiple integrals, introducing spherical and cylindrical polar coordinates. The course also covers vector and scalar fields, including the gradient, divergence, curl and directional derivative, and their physical interpretation, as well as line integrals and the theorems of Green and Stokes.

Prerequisite(s): MATH*2200

MATH*2270 Applied Differential Equations F (3-1) [0.50]

This course covers the solution of differential equations which arise from problems in engineering. Topics include linear equations of first and higher order, systems of linear equations, Laplace transforms, series solutions of second-order equations, and an introduction to partial differential equations. This course is intended for students in B.Eng.

Prerequisite(s): ENGG*1500, (IPS*1510 or MATH*1210)
Restriction(s): MATH*2170
XII. Course Descriptions, Mathematics

MATH*3100 Differential Equations II F (3-1) [0.50]
First order linear systems and their general solution by matrix methods. Introduction to nonlinear systems, stability, limit cycles and chaos using numerical examples. Solution in power series of second order equations including Bessel's equation. Introduction to partial differential equations and applications.
Prerequisite(s): (MATH*2150 or MATH*2160), MATH*2170

MATH*3130 Abstract Algebra F (3-0) [0.50]
This course is an introduction to abstract algebra, covering both group theory and ring theory. Specific topics covered include an introduction to group theory, permutations, symmetric and dihedral groups, subgroups, normal subgroups and factor groups. Group theory continues through the fundamental homomorphism theorem. Ring theory material covered includes an introduction to ring theory, subrings, ideals, quotient rings, polynomial rings, and the fundamental ring homomorphism theorem.
Prerequisite(s): MATH*2000, (MATH*2150 or MATH*2160)

MATH*3160 Linear Algebra II W (3-0) [0.50]
The topics in this course include complex vector spaces, direct sum decompositions of vector spaces, the Cayley-Hamilton theorem, the spectral theorem for normal operators and the Jordan canonical form.
Prerequisite(s): MATH*2160

MATH*3170 Partial Differential Equations and Special Functions W (3-0) [0.50]
This course covers fundamental partial differential equations: the wave equation, the heat equation and Laplace's equation. Topics include linearity and separation of variables, solution by Fourier series, Bessel and Legendre functions, an introduction to the method of characteristics and Fourier transforms.
Prerequisite(s): MATH*3100

MATH*3200 Real Analysis F (3-0) [0.50]
This course provides a basic foundation for real analysis. The rigorous treatment of the subject in terms of theory and examples gives students the flavour of mathematical reasoning and intuition for other advanced topics in mathematics. Topics covered include the real number line and the supremum property; metric spaces; continuity and uniform continuity; completeness and compactness; the Banach fixed-point theorem and its applications to ODEs; uniform convergence and the rigorous treatment of the Riemann integral.
Prerequisite(s): MATH*2000, MATH*2160, MATH*2210

MATH*3240 Operations Research F (3-0) [0.50]
This is a course in mathematical modelling which has applications to engineering, economics, business and logistics. Topics covered include linear programming and the simplex method, network models and the shortest path, maximum flow and minimal spanning tree problems as well as a selection of the following: non-linear programming, constrained optimization, deterministic and probabilistic dynamic programming, game theory and simulation.
Prerequisite(s): (MATH*2150 or MATH*2160), 0.50 credits in statistics
Co-requisite(s): MATH*2200

MATH*3260 Complex Analysis W (3-0) [0.50]
This course extends calculus to cover functions of a complex variable; it introduces complex variable techniques which are very useful for mathematicians, the physical sciences and engineering. Topics include complex differentiation, planar mappings, analytic and harmonic functions, contour integration, Taylor and Laurent series, the residue calculus and its application to the computation of trigonometric and improper integrals, conformal mapping and the Dirichlet problem.
Prerequisite(s): MATH*2200

MATH*3510 Biomathematics W (3-0) [0.50]
This course will convey the fundamentals of applying mathematical modelling techniques to understanding and predicting the dynamics of biological systems. Students will learn the development, analysis, and interpretation of biomathematical models based on discrete-time and continuous-time models. Applications may include examples from population biology, ecology, infectious diseases, microbiology, and genetics.
Prerequisite(s): (MATH*2150 or MATH*2160), (MATH*2170 or MATH*2270)

MATH*4000 Advanced Differential Equations W (3-0) [0.50]
This course provides a rigorous treatment of the qualitative theory of ordinary differential equations and an introduction to the modern theory of dynamical systems. Existence and uniqueness of solutions and their dependence on initial conditions and parameters are covered as well as linearization and the local behaviour of nonlinear systems near equilibrium points. Stability of solutions is examined including the stable manifold theorem and the method of Lyapunov. Limit cycles are covered, with a discussion of Poincaré-Bendixson theory in the plane. The definition and a discussion of some properties of dynamical systems, both continuous and discrete, are given, including an introduction to bifurcations and chaotic dynamics. (Offered in even-numbered years.)
Prerequisite(s): MATH*3100, (MATH*3160 or MATH*3200)

MATH*4050 Topics in Mathematics I W (3-0) [0.50]
In this course students will discuss selected topics at an advanced level. It is intended mainly for mathematics students in the 6th to 8th semester. Content will vary from year to year. Sample topics include: probability theory, Fourier analysis, mathematical logic, operator algebras, number theory combinatorics, philosophy of mathematics, fractal geometry, chaos, stochastic differential equations. (Offered in odd-numbered years.)
Prerequisite(s): MATH*3200

MATH*4060 Topics in Mathematics II W (3-0) [0.50]
In this course students will discuss selected topics at an advanced level as in MATH*4050, but with different choice of topic. (Offered in even-numbered years.)
Prerequisite(s): MATH*3200

MATH*4070 Case Studies in Modeling F (2-2) [0.50]
The course covers selected case studies in mathematical modelling at an advanced level, and is intended for mathematical science students in the 7th or 8th semester. The course covers case studies of real-world problems arising from various areas and the contribution of mathematical models to their solution. Examples that may be covered include models of data communication networks, transportation networks, and spread of epidemics. (Offered in even-numbered years.)
Prerequisite(s): 3.50 credits in mathematical science including MATH*2130 and (MATH*2170 or MATH*2270)

MATH*4140 Applied Algebra W (3-0) [0.50]
The topics covered in this course include permutation representations and the Polya-Burside technique of enumeration, classification of groups, the theory of fields including Galois theory, the construction of finite fields, combinatorial applications to the design of experiments, the theory of binary error correcting codes, combinatorial graphs and their symmetry groups, and finite combinatorial geometries. (Offered in even-numbered years.)
Prerequisite(s): MATH*3130

MATH*4220 Applied Functional Analysis W (3-0) [0.50]
This course covers advanced topics in analysis. It includes Lebesgue measure and integration, measure-theoretic probability, sequences and series of functions, the Stone-Weierstrass approximation theorem, compactness in function spaces and the implicit function theorem. (Offered in even-numbered years.)
Prerequisite(s): MATH*3160, MATH*3200

MATH*4240 Advanced Analysis F (3-0) [0.50]
This course covers advanced topics in analysis. It includes Lebesgue measure and integration, measure-theoretic probability, sequences and series of functions, the Stone-Weierstrass approximation theorem, compactness in function spaces and the implicit function theorem. (Offered in even-numbered years.)
Prerequisite(s): MATH*3160, MATH*3200

MATH*4290 Applied Functional Analysis W (3-0) [0.50]
Topics covered in this course include functional analysis and the spectral theory of linear operators, with examples and applications from selected fields such as physics, engineering and biology. It covers classification of linear second-order partial differential equations, the theory of associated boundary value problems, maximum principles and Green’s functions. It also introduces nonlinear partial differential equations.
Prerequisite(s): MATH*3200, MATH*3260

MATH*4270 Advanced Partial Differential Equations F (3-0) [0.50]
This course focuses on the theory of first-order and second-order partial differential equations, with examples and applications from selected fields such as physics, engineering and biology. It covers classification of linear second-order partial differential equations, the theory of associated boundary value problems, maximum principles and Green’s functions. It also introduces nonlinear partial differential equations.
Prerequisite(s): MATH*3170, MATH*3200, MATH*3260
### MATH*4290 Geometry and Topology W (3-0) [0.50]
This course introduces modern topics in geometry. Topics include the classical geometry of the plane and 3-space, non-Euclidean geometries, the elementary topology of graphs and surfaces and a selection from point-set topology, differential geometry, algebraic geometry, analysis on manifolds, Riemannian geometry, tensor analysis, homotopy and homology groups. (Offered in odd-numbered years.)

Prerequisite(s): MATH*3130, MATH*3200

### MATH*4430 Advanced Numerical Methods F (3-0) [0.50]
This course covers a wide range of numerical methods for finding solutions to mathematical problems. A large component of the course will be the implementation of algorithms on a computer using appropriate software. The mathematical problems addressed include the solution of linear systems of equations via both direct and indirect methods, finding zeros of a nonlinear function, the solution of ordinary differential equations, and the approximation of eigenvalues. Other topics may include numerical quadrature, numerical differentiation, interpolation and approximation of functions, fast Fourier transforms, finite difference and shooting methods for boundary value problems, and an introduction to partial differential equations. (Offered in odd-numbered years.)

Prerequisite(s): MATH*2130, (MATH*2150 or MATH*2160), MATH*2200, (MATH*2170 or MATH*2270)

### MATH*4510 Environmental Transport and Dynamics F (3-0) [0.50]
Mathematical modeling of environmental transport systems. Linear and nonlinear compartmental models. Convective and diffusive transport. Specific models selected from hydrology; ground-water and aquifer transport, dispersion of marine pollution, effluents in river systems; atmospheric pollen dispersion, plume models, dry matter suspension and deposition; Global circulation: tritium distribution. (Offered in odd-numbered years.)

Prerequisite(s): MATH*3510 or MATH*3100, 0.50 credits in statistics

### MATH*4600 Advanced Research Project in Mathematics F,W (0-6) [1.00]
Each student in this course will undertake an individual research project in some area of mathematics, under the supervision of a faculty member. A written report and a public presentation of the project will be required.

Restriction(s): Approval of a supervisor and the course coordinator.
Molecular and Cellular Biology

**MCB*2050 Molecular Biology of the Cell F,W (4-0) [0.50]**

This course will develop an understanding of the key concepts of the molecular biology of the cell, integrating principles of cell structure and function with the underlying molecular mechanism(s). Discussions will focus on aspects of gene regulation, genomics, cell cycle control, protein synthesis, intracellular protein trafficking and protein degradation in eukaryotic cells. Many of these concepts will be discussed in the context of how defects in cellular processes give rise to disease.

*Prerequisite(s):* BIOC*2580, MBG*2040

*Restriction(s):* MCB*2210

**MCB*4010 Advanced Cell Biology F (3-0) [0.50]**

This course examines the cellular and molecular biology of signal transduction. The major theme is an understanding of how eukaryotic cells receive, transmit and respond to environmental signals. Topics will include cellular regulation of cell cycle progression and cell death as well as the consequences of deregulated signal transduction in terms of disease, primarily cancer.

*Prerequisite(s):* [(BIOL*2210 or MCB*2210, MBG*2020)] or MCB*2050

**MCB*4050 Protein and Nucleic Acid Structure F (3-0) [0.50]**

This course explores the relationship between the functions and the three dimensional structures of DNA, RNA and proteins. Topics covered include how these structures are determined, the principles governing their folding and architecture, why some proteins don’t fold at all, and the use of these structures to guide drug discovery. Practical skills are emphasized, including the use of bioinformatics and visualisation tools to analyse sequences and structures.

*Prerequisite(s):* BIOC*3560

*Equate(s):* BIOC*4550, MBG*4350

**MCB*4060 Molecular & Cell Biology of Yeast F (3-0) [0.50]**

The molecular and cellular biology of yeast as a model system in eukaryotic biology, mating, mating type switching, nutrient sensing and response, dimorphism, tissue invasion and drug resistance of selected yeasts will be discussed.

*Prerequisite(s):* [(BIOL*2210 or MCB*2210, MBG*2020)] or MCB*2050

*Equate(s):* BIOL*4050

**MCB*4600 Research Project in Molecular & Cellular Biology I S,F,W (0-12) [1.00]**

This course involves independent research of a practical or theoretical nature on a specific topic in molecular and cellular biology. It is carried out under the supervision of an individual faculty member. Students should make arrangements with both a faculty advisor and the course coordinator at least one semester in advance of taking the course. The signature of the course coordinator will be required to select the course. A departmental registration form must be obtained from, and submitted to, the course coordinator no later than the 2nd class day of the semester in which the student is registered for the course.

*Prerequisite(s):* MBG*3350 or equivalent laboratory experience at the discretion of the student's faculty advisor. Normally, students must have a minimum of 3.00 credits in 3000 or 4000 level BIOC, MBG, MCB OR MICR courses.

*Restriction(s):* Students in programs offering project courses cannot enroll in MCB*4600. Coordinator consent required.

**MCB*4600 Topics in Molecular and Cellular Biology S,F,W (1-3) [0.50]**

This course involves the independent study of a current topic in Molecular and Cellular Biology, selected from the recent research literature and involving a review and critical appraisal of the area. The course comprises independent library research, participation in weekly meetings, and written and oral presentations. Students should make arrangements with both faculty advisor and the course coordinator in a prior course selection period.

*Prerequisite(s):* MBG*3350 or equivalent laboratory experience at the discretion of the student's faculty advisor. Normally, students must have a minimum of 3.00 credits in 3000 or 4000 level BIOC, MBG, MCB OR MICR courses.

*Equate(s):* MBG*4600, MICR*4240

*Restriction(s):* Students in programs offering topics courses cannot enroll in MCB*4600. Coordinator consent required.

**MCB*4500 Research Project in Molecular & Cellular Biology I S,F,W (0-12) [1.00]**

This course involves independent research of a practical or theoretical nature on a specific topic in molecular and cellular biology. It is carried out under the supervision of an individual faculty member. Students should make arrangements with both a faculty advisor and the course coordinator at least one semester in advance of taking the course. The signature of the course coordinator will be required to select the course. A departmental registration form must be obtained from, and submitted to, the course coordinator no later than the 2nd class day of the semester in which the student is registered for the course.

*Prerequisite(s):* MBG*3350 or equivalent laboratory experience at the discretion of the student's faculty advisor. Normally, students must have completed the first 6 semesters of the relevant majors.

**MCB*4500 Research Project in Molecular & Cellular Biology II S,F,W (0-12) [1.00]**

This course involves independent research of a practical or theoretical nature on a specific topic in molecular and cellular biology. It is carried out under the supervision of an individual faculty member. Students should make arrangements with both a faculty advisor and the course coordinator at least one semester in advance of taking the course. The signature of the course coordinator will be required to select the course. A departmental registration form must be obtained from, and submitted to, the course coordinator no later than the 2nd class day of the semester in which the student is registered for the course.

*Prerequisite(s):* MBG*3350 or equivalent laboratory experience at the discretion of the student's faculty advisor. Normally, students must have completed the first 6 semesters of the relevant majors.

**MCB*4510 Research Project in Molecular & Cellular Biology II S,F,W (0-12) [1.00]**

This course involves independent research of a practical or theoretical nature on a specific topic in molecular and cellular biology. It is carried out under the supervision of an individual faculty member. Students should make arrangements with both a faculty advisor and the course coordinator at least one semester in advance of taking the course. The signature of the course coordinator will be required to select the course. A departmental registration form must be obtained from, and submitted to, the course coordinator no later than the 2nd class day of the semester in which the student is registered for the course.

*Prerequisite(s):* 1 of MBG*4500, MCB*4500, MICR*4310. Normally, students must have completed the first 6 semesters of the relevant majors.

**MCB*4510 Research Project in Molecular & Cellular Biology III S,F,W (0-12) [1.00]**

This course involves independent research of a practical or theoretical nature on a specific topic in molecular and cellular biology. It is carried out under the supervision of an individual faculty member. Students should make arrangements with both a faculty advisor and the course coordinator at least one semester in advance of taking the course. The signature of the course coordinator will be required to select the course. A departmental registration form must be obtained from, and submitted to, the course coordinator no later than the 2nd class day of the semester in which the student is registered for the course.

*Prerequisite(s):* 1 of MBG*4500, MCB*4500, MICR*4310. Normally, students must have completed the first 6 semesters of the relevant majors.
**Microbiology**

*School of Environmental Sciences*
*Department of Molecular and Cellular Biology*
*Department of Pathobiology*

**MICR*2420 Introduction to Microbiology S,F,W (3-2) [0.50]**

This course will introduce students to the diversity of microorganisms, including, bacteria, viruses, and fungi, and the impact of microbes on everyday life. The interactions of microorganisms with the biotic and abiotic worlds will be discussed. Topics will include the roles of microorganisms in host-pathogen interactions in disease, the beneficial aspects of microorganisms in bioremediation and food production, and their application in biotechnology.

**Prerequisite(s):** 4.00 credits including (1 of BIOL*1040, BIOL*1070, BIOL*1080, BIOL*1090, CHEM*1040)

**Restriction(s):** MICR*1020, MICR*2020 This is a Priority Access course. Enrolment may be restricted to particular programs, specializations or semester levels during certain periods. Please see the departmental website for more information.

**MICR*2430 Microbiology Methods I F,W (1-3) [0.50]**

This course uses a hands-on approach to investigate microbial growth and factors that impact growth and the interactions of microbes with biotic and abiotic environments. This course will explore the ecological diversity of microorganisms of selected environments. Students will develop a wide range of microbiology-related laboratory skills.

**Prerequisite(s):** MICR*2420

**Equate(s):** MICR*2030

**Restriction(s):** This is a Priority Access course. Enrolment may be restricted to particular programs, specializations or semester levels during certain periods. Please see the departmental website for more information.

**MICR*3090 Mycology F (3-3) [0.50]**

This course provides an introduction to the fungal lifestyle and to classification and evolution of the major groups of fungi, including microfungi, yeasts and other eukaryotic microbes. The characteristics of fungal cell structure, genetics and metabolism will be presented, and fungal reproduction and sporulation processes discussed with reference to the life cycles of representative forms. The ecological and economic importance of fungi will be demonstrated by considering fungal ecology, symbiotic relationships, mycotoxins and pathogenic fungi and industrial applications of fungi and yeasts. Laboratory work will provide familiarity with procedures for culturing, examining and identifying fungi and yeasts. Department of Molecular and Cellular Biology.

**Prerequisite(s):** 1 of BOT*2100, MICR*2030, MICR*2430

**Equate(s):** BIOL*3050

**MICR*3220 Plant Microbiology F (3-0) [0.50]**

In this course the interaction between plants and microorganisms will be studied. Topics include molecular-plant-microbe interactions, plant defenses, bacterial ice nucleation, interaction among plant microbes, root nodulation, mycorrhizae, wood decay, and decomposition of plant litter. School of Environmental Sciences.

**Prerequisite(s):** BIOL*1040 or (BIOL*1070, BIOL*1090)

**MICR*3230 Immunology F (3-0) [0.50]**

This course provides an introduction to the immune response of the vertebrate host, the cells and tissues of the lymphoid system, humoral and cell-mediated immunity, the concept of immunity to diseases and current techniques in immunology. Department of Molecular and Cellular Biology and Department of Pathobiology.

**Prerequisite(s):** (BIOL*1040 or BIOL*1090), BIOC*2580

**MICR*3260 Microbial Adaptation W (3-1) [0.50]**

In this course students examine the physiological responses of bacteria to their diverse and changing environments. By using information technologies to access and analyze the relevant research literature, students learn how and why researchers study this subject, and how research outcomes are evaluated. Department of Molecular and Cellular Biology.

**Prerequisite(s):** BIOC*3560, MICR*3420, MBG*3080

**MICR*3330 World of Viruses F (3-0) [0.50]**

Viruses infecting many organisms will be covered in the context of their global impact on disease and history, beneficial uses of viruses, and their role in advances of molecular theory. A fundamental virology background will be achieved by understanding the diversity of viruses, their replication strategies and their interactions with the host in disease. The relevance of viruses in society will be highlighted by discussion of historical accounts and contemporary news articles. Department of Molecular and Cellular Biology.

**Prerequisite(s):** (MCB*2210, MBG*2020) or MCB*2050

**MICR*3420 Microbial Diversity F (3-0) [0.50]**

The cycling of elements (carbon, nitrogen, sulphur) within ecosystems involves the contributions of diverse microorganisms. This course will study the diversity of Bacteria and Archaea in selected ecosystems at an organismal level, investigate the metabolic and enzymatic diversity in microbes that contribute to and thrive within these environments, and examine the methodologies used to study the relationships and evolution of microorganisms within an ecosystem.

**Prerequisite(s):** BIOC*3560, (MBG*2020 or MBG*2040), MICR*2430

**Equate(s):** MICR*3120

**MICR*3430 Microbiology Methods II W (1-3) [0.50]**

This course will use a hands-on approach to investigate concepts and develop skills needed for the isolation, identification and classification of microorganisms. Classical, molecular, and bioinformatic techniques will be used to isolate and identify bacteria and viruses from natural environments.

**Prerequisite(s):** MBG*3080, MICR*2430

**Co-requisite(s):** MBG*3350

**Equate(s):** MICR*3120

**MICR*4010 Pathogenic Bacteriology W (3-0) [0.50]**

This course focuses on the interactions between bacterial pathogens and host animals, including immune and inflammatory responses of the host’s defense mechanisms. The structural and physiological characteristics of a number of important bacteria causing human and animal diseases are considered. Department of Molecular and Cellular Biology.

**Prerequisite(s):** MBG*3080, [MCB*2050, (MCB*2210 or MBG*2040), MICR*3230]

**MICR*4140 Soil Microbiology and Biotechnology F (3-0) [0.50]**

In this course soil microorganisms will be studied with an emphasis on their diverse metabolic activities and biotechnological uses of soil microorganisms. Current topics will include soil as an environment for microorganisms, cell division in soil, starvation survival mechanisms, microbial evolution, soil microbial biodiversity, gene transfer, microbial gene expression in soil, extraction and purification of microbial nucleic acids, metabolism of soil pollutants and metal-microbe interactions. The use of molecular-based and fluorescent methods to study microorganisms in soil will also be presented. School of Environmental Sciences.

**Prerequisite(s):** BIOC*2580, [BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)]

**MICR*4180 Microbial Processes in Environmental Management F (3-0) [0.50]**

In this course the metabolic basis of microbial processes fundamentally important in the management of agricultural, industrial or municipal wastes are examined. Topics covered include relevant considerations in using microorganisms for pollution control, factors that affect efficient microbial degradation in the environment, and major microbial enzyme systems/pathways for biodegradation of persistent pollutants. Emphasis will be placed on the biochemistry, physiology, genetics and biotechnological applications of pollutant-degrading microorganisms. School of Environmental Sciences.

**Prerequisite(s):** BIOC*2580, [BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)]

**MICR*4280 Microbial Ecology W (3-0) [0.50]**

This course is a study of natural microbial communities: their structure, function and the factors that impact them. The topics include standard and new techniques that are being developed for analyzing microbial communities, current research on microbial ecology of the ocean, the terrestrial and the human ecosystems, Gaia theory, astrobiology and the role of microbes in the evolution of life on Earth. This course covers the metagenomic approach and how it impacts the current view of the diversity of uncultured microbes in the biosphere, and the biochemical basis for extremophile survival and the application of this knowledge on protein structure-function relationships and biotechnology. Department of Molecular and Cellular Biology.

**Prerequisite(s):** (MBG*2040 or MBG*2020), (MICR*2030 or MICR*2430), MBG*3350 is strongly recommended.

**MICR*4330 Molecular Virology W (2-3) [0.50]**

This course will focus on molecular aspects of virus replication cycles and the diverse strategies used for replication of select RNA and DNA viruses. Virus-host interactions including tumour virology and host antiviral responses such as interferon and apoptosis will be discussed. Viral anti host-defence responses as well as recent advances in molecular virology and evolution will be also be covered. Department of Molecular and Cellular Biology.

**Prerequisite(s):** MICR*3330, (MICR*2030 or MICR*2430 is recommended)
### MICR*4430 Medical Virology W (3-0) [0.50]
A study of the interactions of animal viruses and their hosts and of important diseases of humans caused by viruses in different taxonomic groups. The emphasis is on aspects of pathogenesis, epidemiology, immune responses and control. Recent advances in the application of molecular biology to the development of diagnostic tests and vaccines will be included. Department of Pathobiology.

Prerequisite(s): MICR*3330

### MICR*4520 Microbial Cell Biology F (3-0) [0.50]
This course explores the structure-function relationships of macromolecular complexes and cellular ultrastructures involved in fundamental microbial processes. The structures of macromolecular machines will be considered from the perspective of the cellular requirements for survival in different environments, and will be discussed in the context of their integration into cell division and the bacterial cell cycle, as well as their exploitation as targets for antibiotics and other therapeutic approaches. (First offering - Fall 2012)

Prerequisite(s): BIOC*3560, MBG*3080

Restriction(s): MICR*3270

### MICR*4530 Immunology II W (3-0) [0.50]
This course will focus on advanced aspects of the structure and function of the vertebrate immune system in health and disease. Various topics including inflammation, hypersensitivity reactions, immune-mediated diseases such as allergy and autoimmunity, immune response to infection, vaccine development, experimental systems, immunoinformatics and antibody engineering will be discussed.

Prerequisite(s): MICR*3230

Restriction(s): MICR*4230
Molecular Biology and Genetics

Department of Animal and Poultry Science
Department of Molecular and Cellular Biology
Department of Plant Agriculture
Department of Integrative Biology

MBG*1000 Genetics and Society W (3-1) [0.50]
This course covers the basic principles of genetics at work in human society. The roles of genes and inheritance in the biology of humans and the organisms with which we interact. Introduction to some of the social and ethical consequences of genetic knowledge and practice. This is a science course designed primarily for students in the Arts or Social and Applied Human Sciences. Department of Molecular and Cellular Biology.
Restriction(s): Not available to students registered in BSC programs.

MBG*2040 Foundations in Molecular Biology and Genetics F,W (4-0) [0.50]
This course will develop an understanding of the fundamental concepts in genetics, including patterns of inheritance, allelic variation, gene interaction, linkage, gene mapping and changes in chromosome structure and number. This will be followed by in-depth discussions on gene structure, replication, transcription, translation, recombination, mutation and DNA repair, and an introduction to gene regulation.
Prerequisite(s): 4.00 credits including (BIOL*1040 or BIOL*1090)
Restriction(s): MBG*2000, MBG*2020

MBG*2400 Fundamentals of Plant and Animal Genetics F (5-0) [0.50]
Fundamental aspects of plant and animal genetics are covered in this course including the chromosomal basis of inheritance, natural and artificial selection, domestication, epigenetics and quantitative traits. Population dynamics and the effect of selection on allele frequencies will be introduced with examples from agricultural crop and animal species and companion animal species. Genomics will be introduced with an emphasis on the development and use of molecular genetic markers in marker assisted selection.
Prerequisite(s): (BIOL*1050 or BIOL*1070), BIOL*1090

MBG*3050 Human Genetics W (3-3) [0.50]
This course is designed to introduce the student to the study of biological inheritance in humans. The course includes discussion of the genetic basis of human individual differences, gene frequencies in human populations, human behavioral genetics, human cytogenetics, biochemical genetics and developmental genetics, medical genetics and other aspects of human heredity. Department of Molecular and Cellular Biology.
Prerequisite(s): MBG*2020 or MCB*2050

MBG*3660 Genomics F (3-0) [0.50]
This course examines the genomes of eukaryotes and prokaryotes. Topics covered include how genomes are mapped and sequenced, the function of the genome and ethical issues arising from genomic information. How genomic data is used for understanding and treating human disease and for the study of evolution will also be discussed.
Prerequisite(s): 70% in ( MBG*2020 or MCB*2050) and 75% in MBG*3350

MBG*3080 Bacterial Genetics F (3-0) [0.50]
This course focuses on the genetics of prokaryotic microorganisms and their viruses. Some major topics covered are: regulation of gene expression, analysis of bacterial and phage genomes, plasmids, transposable elements, and mutation studies. Department of Molecular and Cellular Biology.
Prerequisite(s): ( MBG*2020 or MCB*2040), (1 of MICR*2020, MICR*2030, MICR*2420)

MBG*3090 Applied Animal Genetics F (5-0) [0.50]
This course studies the basis of, and methods for, effective use of modern animal breeding tools to improve livestock species. The course involves an examination and comparison of the structure of genetic improvement programs across species, International aspects and challenges to animal breeding programs are considered. Department of Animal and Poultry Science. (Offered through Distance Education format.)
Prerequisite(s): ( MBG*2000 or MCB*2040), 0.50 credits in statistics

MBG*3100 Plant Genetics W (3-2) [0.50]
This course examines reproduction in plants, genome organization, organelle and polypeptide genetics, and analyses of mutations, genetic variation and linkage with classical and modern approaches. Department of Plant Agriculture.
Prerequisite(s): (1 of MBG*2000, MBG*2040, MBG*2400), STAT*2040

MBG*3350 Laboratory Methods in Molecular Biology I,F,W (1-8) [0.75]
This course involves laboratory based instruction in the basic methodologies of Molecular Biology. Students will have the opportunity to develop technical skills and practical knowledge sufficient to perform basic procedures independently, and to diagnose and analyze experimental results obtained with these techniques. Department of Molecular and Cellular Biology.
Prerequisite(s): BIOC*2580, (MBG*2020 or MCB*2050)
Restriction(s): Registration in BSC.BIOC (major or minor), BIOC*2580, BTOX-C, BTOX-B, BTOX-B, BPCN, BCPH-C, MICR*2050, MCB*2050, MCB*2060

MBG*3360 Laboratory Methods in Molecular Biology II W (0-8) [0.75]
This is a laboratory based course which builds on the techniques introduced in MBG*3350. Students will have the opportunity to develop technical skills and practical knowledge necessary to perform advanced agendas independently, and to diagnose and analyze experimental results obtained with these techniques. Department of Molecular and Cellular Biology.
Prerequisite(s): 70% in ( MBG*2020 or MCB*2050) and 75% in MBG*3350

MBG*3430 Animal Breeding Methods and Applications F (3-2) [0.50]
This course provides an overview of the genetic mechanisms that underlie organismal development. The molecular biology of cell determination and differentiation and the genetic control of morphogenesis and pattern formation will be emphasized. Department of Molecular and Cellular Biology.
Prerequisite(s): MBG*2020 or MCB*2050

MBG*3470 Genetics and Molecular Biology of Development F (3-0) [0.50]
This course is the lecture portion only of MBG*4040
Prerequisite(s): MBG*2020 or MCB*2050
Restriction(s): MBG*4040

MBG*4080 Molecular Genetics F (3-0) [0.50]
In this course the topics studied will include the chemical nature of genetic material, transcription and the control of gene expression, and DNA cloning and the use of recombinant DNA molecules in modifying gene expression. Department of Molecular and Cellular Biology.
Prerequisite(s): MBG*2020 or MCB*2050

MBG*4110 Advanced Concepts in Genetics F (3-0) [0.50]
This course presents classical non-Mendelian phenomena, including analysis of chromosome breakage, transposition, imprinting and paramutation. Modern advances in gene regulation via epigenetic phenomena will be a central theme, focusing on chromatic remodeling, gene silencing and RNA interference as they pertain to organism development, and gene regulation via epigenetic phenomena will be a central theme, focusing on chromatic remodeling, gene silencing and RNA interference as they pertain to organism development, along with applications to livestock and poultry species. Integrates quantitative genetics with concepts of statistics, economics, biology and biotechnology and expands into development of practical breeding plans. Department of Animal and Poultry Science.
Prerequisite(s): MBG*3060

MBG*4140 Plant Breeding F (3-2) [0.50]
This course examines the application of genetic principles to plant improvement. Topics include breeding objectives, mating systems, selection, testing and germplasm maintenance of horticultural and crop plants. Department of Plant Agriculture.
Prerequisite(s): (1 of MBG*2000, MBG*2040, MBG*2400), STAT*2040

MBG*4240 Applied Molecular Genetics W (3-0) [0.50]
In this course the topics studied will include molecular and cellular aspects of biotechnology, in vitro manipulations of animal and plant cells, genetic engineering in eukaryotes and development of transgenic organisms, methods of gene therapy and molecular biology of cancer and its treatment. Department of Molecular and Cellular Biology.
Prerequisite(s): MBG*2020 or MCB*2050

2012-2013 Undergraduate Calendar Last Revision: Oct. 19, 2012
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title and Description</th>
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<tbody>
<tr>
<td>MBG*4270</td>
<td>DNA Replication, Recombination and Repair W (3-0) [0.50]</td>
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<td>This course will examine the DNA transactions that determine the structure and function of the genome, with an emphasis on natural and synthetic mutagens and their mode of action, replication and recombination of genetic material, recognition and repair of DNA damage, and inherited and somatic genetic diseases arising from abnormal DNA metabolism. Department of Molecular and Cellular Biology. Prerequisite(s): MBG<em>2020 or MCB</em>2050</td>
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<tr>
<td>MBG*4300</td>
<td>Plant Molecular Genetics W (3-0) [0.50]</td>
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<td>This course studies the molecular genetics of plants. The topics include: plant genome diversity and synteny; Arabidopsis thaliana genome, hormonal, environmental and developmental regulation of gene expression; chloroplast and mitochondrial genomes; and gene expression and silencing in transgenics. The course will be delivered using a lecture and paper discussion format. Students will learn and use a variety of computer techniques to search and analyze plant genome databases. Department of Plant Agriculture. Prerequisite(s): MBG<em>2000 or MBG</em>2040</td>
</tr>
</tbody>
</table>
MUSC*1060 "Classical" Music: Context and Codes F,W (3-0) [0.50]
An introductory course intended for students with NO previous experience in music. The main concepts and terminology of music from the Medieval period through the 20th-century will be explored in connection with the study of selected musical works. (Also offered through Distance Education format.)
Restriction(s): MUSC*2280, MUSC*2600, MUSC*2610, MUSC*2620, MUSC*3630

MUSC*1000 Physics of Music F (3-0) [0.50]
This course is designed for arts and social science students with an interest or background in music. The fundamentals of vibrations and waves will be introduced and applied to a study of archetypal instruments. The psychoacoustic basis of pitch and loudness will be discussed. (Also listed as PHYS*1810.) (Offered in even-numbered years.)
Restriction(s): PHYS*1810; students who have standing in any other 1000 level Physics course (except PHYS*1020 or PHYS*1600) may enrol in this course only if they are completing an honours or general program in Music, in which case permission of the instructor is required.

MUSC*1130 Introduction to Musicianship S,F,W (0-8) [0.50]
Fundamentals of ear training, sight-singing, keyboard, and written skills (rudiments such as scales, intervals and basic chord identification) are introduced. Proficiency on an instrument is not required, but previous experience with note-reading is expected. MUSC*1130 cannot be counted toward a specialization in music. (Offered through Distance Education format only.)
Equates(s): MUSC*1120
Restriction(s): MUSC*1180

MUSC*1180 Musicianship I F,W (3-0) [0.50]
Ear training through dictation and sight-singing exercises; C clefs; elementary improvisation and harmonization.

MUSC*1500 Applied Music I F,W (1-6) [0.50]
This course provides individual instruction in the technical and stylistic aspects of artistic solo instrumental or vocal performance. In order to register for this course, students must arrange an audition with the School of Fine Art and Music at the time of course selection.
Restriction(s): Successful completion of an audition. Registration in semesters 1 to 4 (with the exception of BA Honours Music Majors, who may apply at any time). Registration in a Music Specialization.

MUSC*1510 Applied Music II S,F,W (1-6) [0.50]
This course is a continuation of MUSC*1500.
Prerequisite(s): A minimum grade of 70% in MUSC*1500.
Restriction(s): Registration in a Music Specialization.

MUSC*2010 The Musical Avant-Garde F (3-0) [0.50]
This course offers an introduction to the avant-garde musical life of the 20th century including the works of Debussy, Stravinsky, Satie, Schoenberg, Cage, Cowell, and others. (Offered in even-numbered years.)

MUSC*2030 Music in Canada F (3-0) [0.50]
The background and development of musical life in Canada. Cultivation of understanding of Canadian music recorded examples with emphasis on 20th-century compositions. (Offered in odd-numbered years.)

MUSC*2100 Creating Music on the Computer F,W (3-0) [0.50]
An introduction to computer technologies as they apply to the creation and manipulation of music. Topics will be drawn from the areas of sound synthesis and processing, recording, encoding, and transcription. The course will include a classroom and an applied component.
Prerequisite(s): MUSC*1180 or MUSC*2180. Some computer experience is recommended.

MUSC*2140 History of Jazz F,W (3-0) [0.50]
A survey of the major styles, personalities, and performances of the jazz tradition in terms of its social and cultural contexts through the examination of jazz texts and commentary, autobiographies of musicians, and recorded examples of important performances. (Also offered through Distance Education format.)

MUSC*2150 Music and Popular Culture F,W (3-0) [0.50]
A survey of the major genres, styles, personalities and performance of popular music primarily in the 20th-century through lectures, listening, discussion and reading. Issues such as the relationships between popular music and race, class, technology, and art will be examined. Technical knowledge of music is not required. (Also offered through Distance Education format.)

MUSC*2180 Musicianship II F,W (3-0) [0.50]
A continuation of MUSC*1180.
Prerequisite(s): MUSC*1180

MUSC*2220 Electronic Music: Music in the Digital Age S,F,W (3-0) [0.50]
This course will provide an introduction to digital music, from the initial "cybernetic" experiments of the 1950s to the evolution of software tools for synthesizing, processing, and analyzing sound to the development of music/audio-related hardware such as digital synthesizers, samplers, recorders, mixers, and workstations. An overview of musical genres utilizing digital technology will be presented (experimental, techno, dance, rap, ambient, etc.). Digital technology, including the revolutionary MIDI protocol, will be set into historical context, looking at musical and social developments and milestones, as well as related non-digital technology such as analog synthesizers and multi-track recorders. (Offered in even-numbered years.)

MUSC*2270 World Music W (3-0) [0.50]
This course offers an ethnomusicological introduction to the musical life of Sub-Saharan Africa, India, South America, the Middle East, Indonesia, and the Far East.
Restriction(s): MUSC*2200, MUSC*2110

MUSC*2280 Masterworks of Music W (0-10) [0.50]
Selected musical works from 1600 to the present will be studied with reference to the historical, literary, and artistic milieu in which they were written and performed. Previous familiarity with basic musical terminology and note reading is required. (Offered through Distance Education format only.)

MUSC*2330 Genre and Style in Western Art Music F (3-0) [0.50]
Through a close study of representative works from the Western Art Music tradition, this course examines the structure and context of enduring musical genres and styles from the 16th through the 19th centuries. An emphasis is placed on critical listening, score reading, and historical research in music.
Prerequisite(s): MUSC*1060, MUSC*1180
Restriction(s): MUSC*2600, MUSC*2610, MUSC*2620

MUSC*2410 Applied Composition I F,W (1-6) [0.50]
This course offers individual instruction in the technical and aesthetic aspects of music composition. In order to register for this course, students must submit a portfolio and arrange for an interview with the School of Fine Arts and Music at the time of course selection.
Prerequisite(s): MUSC*2180
Restriction(s): Instructor consent and registration in a Music Program (Honours major or minor, General).
This course is a continuation of MUSC*2410.

**Prerequisite(s):** A minimum grade of 70% in MUSC*2410.

**Restriction(s):** Registration in a Music Program (Honours major or minor, General).

MUSC*2500 Applied Music III S,F,W (1-6) [0.50]

A continuation of MUSC*2500.

**Prerequisite(s):** (MUSC*1180 or MUSC*2180), a minimum grade of 70% in MUSC*1510. (MUSC*1180 or MUSC*2180 may be taken as corequisite)

**Restriction(s):** Registration in a Music specialization.

MUSC*2510 Applied Music IV S,F,W (1-6) [0.50]

A continuation of MUSC*2500.

**Prerequisite(s):** A minimum grade of 70% in MUSC*2500

**Restriction(s):** Registration in a Music specialization.

MUSC*2520 Materials of Music I F (3-0) [0.50]

The study and performance of selected instrumental music through participation in one of the School's ensembles: Chamber Ensemble, Concert Winds, Contemporary Music Ensemble, Jazz Band, or the Early Music Ensemble. In order to register for an ensemble, the student must arrange for an audition with the School of Fine Art and Music. Auditions will be held prior to the first day of classes each Fall and Winter semester. Students must check with the School of Fine Art and Music office for audition dates. Students are encouraged to audition for an ensemble in the Fall semester and to participate in it for both Fall and Winter semesters. Not all ensembles will be able to accept new members in Winter. Consult the School of Fine Art and Music for further information.

**Restriction(s):** Successful completion of an audition. Instructor consent required.

MUSC*2530 Materials of Music II W (3-0) [0.50]

A continuation of MUSC*2520.

**Prerequisite(s):** MUSC*2530

**Restriction(s):** Instructor consent required.

MUSC*2540 Instrumental Ensembles II F,W (0-2) [0.25]

A continuation of MUSC*2530.

**Prerequisite(s):** MUSC*2530

**Restriction(s):** Instructor consent required.

MUSC*2550 Choral Ensembles I F,W (0-2) [0.25]

The study and performance of selected choral literature through participation in one of the School's ensembles: Chamber Ensemble, Concert Winds, Contemporary Music Ensemble, Jazz Band, or the Early Music Ensemble. In order to register for an ensemble, the student must arrange for an audition with the School of Fine Art and Music. Auditions will be held prior to the first day of classes each Fall and Winter semester. Students must check with the School of Fine Art and Music office for audition dates. Students are encouraged to audition for an ensemble in the Fall semester and to participate in it for both Fall and Winter semesters. Not all ensembles will be able to accept new members in Winter. Consult the School of Fine Art and Music for further information.

**Restriction(s):** Successful completion of an audition. Instructor consent required.

MUSC*2560 Choral Ensembles II F,W (0-2) [0.25]

A continuation of MUSC*2550.

**Prerequisite(s):** MUSC*2550

**Restriction(s):** Instructor consent required.

MUSC*2570 Keyboard Accompaniment I F,W (0-2) [0.25]

Development of sight-reading and accompaniment skills for pianists in close coordination with vocal and instrumental applied music students.

**Prerequisite(s):** MUSC*2510 on piano.

**Restriction(s):** Instructor consent required.

MUSC*2580 Keyboard Accompaniment II F,W (0-2) [0.25]

A continuation of MUSC*2570.

**Prerequisite(s):** MUSC*2570

**Restriction(s):** Instructor consent required.

MUSC*2660 Materials of Music I F (3-0) [0.50]

This course is a study of music theory and analysis. It builds on rudiments and musicianship skills developed in MUSC*1180 and introduces students to materials of music including melodic construction, phrase structure, linear counterpoint, rhythmic organization, and diatonic harmony. Students will work on both applied and analytical assignments.

**Prerequisite(s):** MUSC*1180

**Restriction(s):** MUSC*1250, MUSC*2360

MUSC*2670 Materials of Music II W (3-0) [0.50]

This course continues the study of music theory and analysis. Students move on to learn about and work with more advanced concepts of tonal harmony and music analysis. The second half of the course introduces students to post-tonal music (20th-century). Students will work on both applied and analytical assignments.

**Prerequisite(s):** MUSC*2180, MUSC*2660

**Restriction(s):** MUSC*2360, MUSC*2370

MUSC*3150 Music in London F (3-0) [0.50]

A lecture/seminar course that will examine in depth choral and instrumental music of major composers from representative periods and media, performed at London, England. Compositions will be analyzed in relation to their stylistic technique, formal structure, and historical place in the repertoire of music. A professor of music will present weekly seminars, arrange assignments, and give personal supervision in London.

**Restriction(s):** Admission to the London Semester.

MUSC*3410 Applied Composition III F,W (1-6) [0.50]

This course is a continuation of MUSC*2420.

**Prerequisite(s):** A minimum grade of 70% in MUSC*2420 and (2 of MUSC*2530, MUSC*2540, MUSC*2550, MUSC*2560).

**Restriction(s):** Registration in a Music Program (Honours major or minor, General).

MUSC*3420 Applied Composition IV F,W (1-6) [0.50]

This course is a continuation of MUSC*3410.

**Prerequisite(s):** A minimum grade of 70% in MUSC*3410.

**Restriction(s):** Registration in a Music Program (Honours major or minor, General).

MUSC*3500 Applied Music V S,F,W (1-6) [0.50]

A continuation of MUSC*2510.

**Prerequisite(s):** 3.00 credits in music courses including a minimum grade of 70% in MUSC*2510, (MUSC*2540 or MUSC*2560).

**Restriction(s):** Registration in a Music Program (Honours major or minor, General, Area of Concentration).

MUSC*3510 Applied Music VI S,F,W (1-6) [0.50]

A continuation of MUSC*3500 including preparation and performance of a juried recital; restricted to students in a Music program (honours major or minor, area of concentration).

**Prerequisite(s):** 4.00 credits in music courses including a minimum grade of 70% in MUSC*3500

**Restriction(s):** Registration in a Music Program (Honours major or minor, General, Area of Concentration).

MUSC*3550 Advanced Music Ensemble I F,W (0-3) [0.25]

The study and performance of selected instrumental or vocal chamber music through participation in a small ensemble under the guidance of a supervising instructor. Students will organize the ensemble, which normally consists of two to six vocalists and/or instrumentalists, design a project with the instructor, and submit the proposal to the Director of the School of Fine Art and Music for approval by the last day of course selection in Fall for Winter or vice versa (for the following Fall). A form is available from the School office for this purpose.

**Prerequisite(s):** MUSC*2500, (2 of MUSC*2530, MUSC*2540, MUSC*2550, MUSC*2560)

**Restriction(s):** Registration in a Music Program (Honours major or minor, General, Area of Concentration). Instructor consent required.

MUSC*3560 Advanced Music Ensemble II F,W (0-3) [0.25]

A continuation of MUSC*3550.

**Prerequisite(s):** MUSC*3550

**Restriction(s):** Instructor consent required.

MUSC*3630 20th Century Music W (3-0) [0.50]

This course examines music from the late 19th century (Debussy and post-romantic composers) up to the present in both historical and theoretical perspectives.

**Prerequisite(s):** (MUSC*2370 or MUSC*2670), (MUSC*2330 or MUSC*2620)

**The following topics courses normally focus on current areas of faculty research. It is expected that students will have completed at least 10.00 credits before taking these upper-level courses.**

MUSC*3730 Topics in Jazz and Improvised Music F (3-0) [1.00]

This course provides a seminar experience in focussed topics related to jazz and improvised music. Topics will normally include some combination of the following: jazz improvisation history and theory, critical studies in jazz/improvised music. Subject matter will vary according to the instructor. (Offered in even-numbered years.)

**Prerequisite(s):** 9.00 credits including MUSC*2100 or MUSC*2140
### MUSC*3740 Topics in Popular Music Studies F (3-0) [1.00]
This course examines the rise and impact of the cultural industries on production and consumption of music, the development of transnational popular music, and the role popular music plays in the politics of social identity. (Offered in even-numbered years.)
**Prerequisite(s):** 9.00 credits including (MUSC*1180 or MUSC*2180), MUSC*2150

### MUSC*3800 Topics in Music History/Analysis W (3-0) [1.00]
This course examines selected topics in music history, performance practice, analysis, and music within its cultural context. (Offered in even-numbered years.)
**Prerequisite(s):** 9.00 credits including MUSC*2670, MUSC*3630

### MUSC*3820 Topics in Ethnomusicology F (3-0) [1.00]
Topics for this course will normally include some combination of the following: a specific world music tradition, ethnomusicological issues, theories, or methods. Subject matter will vary according to the instructor. (Offered in odd-number years.)
**Prerequisite(s):** 9.00 credits including (MUSC*1180 or MUSC*2180), MUSC*2270

### MUSC*3860 Topics in Digital Music F (3-0) [1.00]
This is a course which focuses on a specific area of digital music production. Topics may include advanced audio production, advanced MIDI sequencing, advanced music notation/instrumentation, synthesis and signal processing, music-oriented computer programming, or interactive computer music. Normally, a major creative project will be completed and presented as an outcome of the course. (Offered in odd-number years.)
**Prerequisite(s):** 9.00 credits including MUSC*2100, (MUSC*2010 or MUSC*2220)
**Restriction(s):** Instructor consent required.

### MUSC*3880 Topics in Music Pedagogy W (3-0) [1.00]
This course examines current philosophical trends in music education, and the application of various theories of music learning. Students will be asked to process conflicting ideas as presented through readings, class discussion, and their own experience as learners. There is also a practical component, in which each student will conduct an ensemble or give a series of private lessons, as well as present a collaborative teaching assignment. The course is designed to prepare music students to teach privately or in a classroom. (Offered in odd-numbered years.)
**Prerequisite(s):** 9.00 credits including MUSC*2180, MUSC*2670

### MUSC*4200 Independent Project in Music S,F,W (3-0) [0.50]
This is an independent learning option in music for qualified students working in consultation with a faculty advisor. The project may take the form of a course of readings and assignments, enabling the student to investigate a topic in music not otherwise available in the curriculum. It may also include a creative component (such as composition) or an experiential learning component (such as a professional performance opportunity, or a community outreach opportunity). A written proposal, signed by the faculty advisor, must be submitted to the Director of the School for approval by the last day of course selection in the previous semester.
**Prerequisite(s):** 3.00 credits in Music
**Restriction(s):** Instructor consent required, registration in an honours major or minor in music or an area of concentration (General Program) in music.

### MUSC*4401 Honours Music Recital S,F,W (3-0) [0.50]
First part of the two-semester course MUSC*4401/2. Refer to MUSC*4401/2 for course description.
**Prerequisite(s):** Completion of the music core.
**Restriction(s):** Permission of the School and registration in an honours major in music.

### MUSC*4402 Honours Music Recital S,F,W (3-0) [0.50]
Second part of the two-semester course MUSC*4401/2. Refer to MUSC*4401/2 for course description.
**Prerequisite(s):** Completion of the music core.
**Restriction(s):** Permission of the School and registration in an honours major in music.
NANO*1000 Introduction to Nanoscience F (3-0) [0.50]
This course introduces students to the emerging field of nanoscience. Its representation in popular culture and journalism will be contrasted with the present and near future realities in the field. Current industrial and business applications will be discussed. Guest lectures will be given by faculty performing research in the field. The course also aims to help students in their transition to the academic life by emphasizing skills and values such as academic integrity and problem solving and by actively connecting their first-year science core courses to the field of nanoscience.
Prerequisite(s): 4U Chemistry or 4U Physics
Restriction(s): Registration in Nanoscience Major.

NANO*2000 Synthesis of Nanomaterials F (3-3) [0.50]
This course explores the structure of matter, focussing on condensed phases. Crystalline and amorphous materials as well as polymers and composites will be studied. Structural, mechanical, and electronic properties will be highlighted and the changes in these properties that are observed as the dimensions are reduced below 100 nm in size will be studied. Methods to fabricate nanoparticles, nanocomposites, thin films, polymers, ferrofluids, and other nanomaterials will be discussed.
Prerequisite(s): CHEM*1050, IPS*1510 or (MATH*1210, PHYS*1120)
Restriction(s): Registration in Nanoscience Major.

NANO*2100 Analysis of Nanomaterials W (3-3) [0.50]
This course provides an in-depth study of the important instruments that have been developed to analyze nanostructured materials. Useful information that is derived from scattering processes involving X-rays, visible light, electrons, and neutrons will be studied. Microscopic techniques such as Atomic Force Microscopy will also be studied because of the nanoscale structural information that they can provide. The study of spectroscopic techniques also forms part of the course. The application of these instruments to lithographic production techniques is also developed.
Prerequisite(s): NANO*2000

NANO*3200 Nanolithographic Techniques W (3-3) [0.50]
Lithographic techniques applied at the micrometer and nanometer scale are key to the production of devices for the electronic and related industries. Projection and proximity techniques (UVX, electron, and ion beams) and writing processes (electron beam, ion beam, and scanned probe) will be explored. Emphasis will also be placed on soft lithographic techniques such as stamping and dip-pen nanolithography.
Prerequisite(s): NANO*2100

NANO*3300 Spectroscopy of Nanomaterials W (3-3) [0.50]
The interaction of nanostructured matter with light gives rise to some of its most important observable properties. The absorption and fluorescence properties of nanomaterials will be studied. Particular attention will be paid to experiments which require nanoscale path lengths, such as IR spectroscopy of monomolecular thin films. Local spectroscopic probes with nanoscale resolution such as Near-field Scanning Optical Microscopy (NSOM) and Scanning Probe Spectroscopy (SPS) will be explored.
Prerequisite(s): NANO*2100, (CHEM*3860 or PHYS*3230)

NANO*3500 Thin Film Science F (3-3) [0.50]
The deposition and growth of thin layers of materials is an important process on the production of many devices. This course will study the various methods by which thin films are grown including physical and chemical vapour deposition, molecular beam epitaxy, atomic layer epitaxy, and self-assembled monolayers. Experimental techniques for analyzing the properties of thin films will also be discussed.
Prerequisite(s): NANO*2100

NANO*3600 Computational Methods in Materials Science F (3-3) [0.50]
Many computational techniques have been brought to bear on the study of nanostructured matter. This course will present several of these techniques and will introduce a number of computational packages that can be used to study matter. Monte Carlo and ab initio methods along with molecular dynamics simulations will be studied, with an emphasis upon the application of the software packages and the appropriate interpretation of the results.
Prerequisite(s): MATH*2160, MATH*2170, CIS*1500 is highly recommended
Co-requisite(s): CHEM*3860 or PHYS*3230

NANO*3700 Introduction to Quantum Computing W (3-0) [0.50]
This course is an introduction to quantum computation and quantum information. Following an introduction to the basics of linear algebra, quantum mechanics, and computer science, the topics covered will be taken from the following: qubits, quantum channels, quantum circuit model and unitary gates, entanglement and quantum teleportation, introductory quantum algorithms, physical error models, no-cloning theorem, error-correcting codes, and quantum error correction.
Prerequisite(s): MATH*2160, (CHEM*3860 or PHYS*3230)

NANO*4000 Advanced Studies in Nanoscience S,F,W (1-5) [0.50]
Students will work with faculty in their laboratories on research topics of current interest. A final written paper and oral presentation of the work will be given by the students.
Prerequisite(s): 1.50 credits in NANO courses at the 3000 level.
Restriction(s): Instructor consent required.

NANO*4100 Biological Nanomaterials F (3-0) [0.50]
Biological systems provide a rich range of examples of specialized chemical systems that are structured on the nanoscale. Nanofibres, microtubules, viruses, and ribosomes are examples of systems that can be studied from the perspective of nanoscience. Using these systems or developing artificial systems which mimic their functionality are important growth areas in nanoscience and will be explored in this course.
Prerequisite(s): NANO*2100

NANO*4200 Topics in Nanomaterials W (3-0) [0.50]
This course will introduce students to special topics in nanostructured materials. The course will illustrate how to design, create, characterize and utilize new materials in which the presence of a nanoscale structural elements results in new properties of fundamental and technological importance.
Prerequisite(s): NANO*3300, NANO*3500, (CHEM*3860 or PHYS*3230)

NANO*4500 Quantum Algorithms F (3-0) [0.50]
This course studies important algorithms being developed in the field of quantum computing. Topics covered will include a selection from the following: private key cryptography, quantum key distribution, security and coherent information, private quantum channels, error models, recovery and testable conditions for error correction, stabilizer codes, introduction to fault tolerant quantum computing, and the threshold theorem.
Prerequisite(s): NANO*3700

NANO*4510 Quantum Cryptography and Error Correction W (3-0) [0.50]
This course introduces the basics of quantum error correction and considers applications to quantum cryptography. Topics covered will include a selection from: private key cryptography, quantum key distribution, security and coherent information, private quantum channels, error models, recovery and testable conditions for error correction, stabilizer codes, introduction to fault tolerant quantum computing, and the threshold theorem.
Prerequisite(s): NANO*3700

NANO*4900 Advanced Studies in Nanoscience S,F,W (1-5) [0.50]
This course will guide students through the primary literature of the field and assign readings from recent achievements. Students will select individual topics on which they will prepare a major paper and present an oral seminar or a poster.
Prerequisite(s): 1.50 credits in NANO courses at the 3000 level.
Restriction(s): Instructor consent required.

NANO*4910 Nanoscience Research Project S,F,W (0-6) [0.50]

2012-2013 Undergraduate Calendar
Neuroscience

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEUR*4000</td>
<td>Current Issues in Neuroscience F (3-0) [0.50]</td>
<td></td>
<td>This course will consist of guest lectures offered by faculty who are working in the field and will complement the seminars given by the students on topics that they have prepared in studying the primary literature. Students will also prepare a major paper on a neuroscience topic.</td>
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<tr>
<td></td>
<td>Prerequisite(s): 12.50 credits</td>
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<td></td>
<td>Restriction(s): Enrolment restricted to Neuroscience minor.</td>
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<tr>
<td>NEUR*4401/2</td>
<td>Research in Neurosciences S-F-F-W (0-6) [0.50]</td>
<td></td>
<td>In this course, students will conduct independent research of a current topic in any of the biomedical neurosciences (such as anatomy, physiology, pharmacology, toxicology, molecular biology, biochemistry). Students work under the supervision of individual faculty. Faculty consent must be obtained prior to being admitted into the course by the course coordinator. This is a two-semester course offered over consecutive semesters. When you register for this course you must select NEUR<em>4401 in the first semester and NEUR</em>4402 in the second semester. A grade will not be assigned in NEUR<em>4401 until NEUR</em>4402 has been completed. Department of Biomedical Sciences.</td>
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<td></td>
<td>Prerequisite(s): 14.00 credits</td>
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<tr>
<td></td>
<td>Restriction(s): BIOM<em>4510, BIOM</em>4521/2, NEUR*4450. Instructor consent required. Enrolment restricted to Neuroscience minor.</td>
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<tr>
<td>NEUR*4001</td>
<td>Research in Neurosciences S-F-W-S (0-6) [0.5]</td>
<td></td>
<td>This is the first part of the two-semester course NEUR<em>4401/2. Refer to NEUR</em>4401/2 for the course description. Department of Biomedical Sciences.</td>
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<tr>
<td></td>
<td>Prerequisite(s): 14.00 credits</td>
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<tr>
<td></td>
<td>Restriction(s): BIOM<em>4510, BIOM</em>4521/2, NEUR*4450. Instructor consent required. Enrolment restricted to Neuroscience minor.</td>
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<tr>
<td>NEUR*4450</td>
<td>Research in Neurosciences S-F-W-S (0-12) [1]</td>
<td></td>
<td>In this course, students will conduct independent laboratory research on a current topic in any of the biomedical neurosciences (such as anatomy, physiology, pharmacology, toxicology, molecular biology, biochemistry). Students work under the supervision of individual faculty. Faculty consent must be obtained prior to being admitted into the course by the course coordinator. Department of Biomedical Sciences.</td>
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<tr>
<td></td>
<td>Prerequisite(s): 14.00 credits</td>
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<tr>
<td></td>
<td>Restriction(s): BIOM<em>45102, BIOM</em>4521/2, NEUR*4401/2. Instructor consent required. Enrolment restricted to Neuroscience minor.</td>
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</table>
Natural Resource Studies

School of Environmental Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NRS*3000</td>
<td>Environmental Issues in Agriculture and Landscape Management W (3-2) [0.50]</td>
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</tbody>
</table>

This course provides an introduction to a range of specific environmental and resource issues in agriculture and landscape management. Issues to be covered include geological resources, climate change, nutrient management, groundwater contamination, source water protection, land use planning, and natural resources management. In each case, the policy context for the issue is presented, as well as the science needed for understanding and preparation of management decisions. This course is designed to suit students in a variety of science programs including Agriculture. School of Environmental Sciences.

(First offering - Winter 2013)

Prerequisite(s): 1 of AGR*2320, ENVS*2060, SOIL*2010
Equate(s): SOIL*3000
Restriction(s): AGR*2301, SOIL*2200
Nutrition

Department of Animal and Poultry Science
Department of Family Relations and Applied Nutrition
Department of Human Health and Nutritional Sciences

NUTR*1010 Nutrition and Society F.W (3-0) [0.50]
This course examines the significance of nutrition in terms of individuals and societies throughout the world. Factors involved in the application of knowledge of nutritional needs and food selection. Department of Family Relations and Applied Nutrition. (Also offered through Distance Education format.)
Restriction(s): This is a Priority Access Course for B.A.Sc. and FCS minor and some restrictions may apply during some time periods.

NUTR*2050 Family and Community Nutrition F (3-0) [0.50]
Nutritional needs through the life cycle and their significance in family and community health. Department of Family Relations and Applied Nutrition. (Also offered through Distance Education format.)
Restriction(s): NUTR*1010

NUTR*2150 Introduction to Nutritional and Food Sciences F (3-0) [0.50]
This interdisciplinary course provides an introduction to the Food and Nutritional Sciences from both historical and modern perspectives. Major themes are the nutritional and functional properties of food, nutrient assimilation, food preservation and safety, and the interactions between food processing, diets and health. The course is taught by the Department of Food Science. (Also listed as FOOD*2150.)
Restriction(s): (BIOL*1040 or BIOL*1080), CHEM*1040
Equate(s): FOOD*2150
Restriction(s): FOOD*2010, FOOD*3090. Not available to students registered in B.A.Sc. AHN major.

NUTR*3070 Nutrition and Physical Activity Interventions W (3-0) [0.50]
This course examines the development, implementation, and evaluation of a) integrated interventions to improve both nutrition and physical activity behaviours and b) interventions to improve physical activity behaviours of people of different ages in various settings. Various theories and models used to develop nutrition and physical activity interventions will be examined. Department of Family Relations and Applied Nutrition.
Prerequisite(s): FRHD*3070, NUTR*2050
Restriction(s): Registration in the B.A.Sc. program.

NUTR*3090 Clinical Nutrition I W (3-3) [1.00]
The epidemiology, pathophysiology, and role of nutrition will be considered in the prevention and management of several major chronic conditions including cardiovascular diseases, disorders of energy balance and diabetes mellitus. There is an emphasis on developing the skills for high risk individual management approaches. Department of Family Relations and Applied Nutrition.
Prerequisite(s): (BIOM*2000 or BIOM*3200), FRHD*3070, NUTR*2050, ( NUTR*3190 or NUTR*3210), STAT*2090
Co-requisite(s): FRHD*3400
Restriction(s): NUTR*3040. Registration is limited to students registered in the B.A.Sc. AHN major.

NUTR*3110 Food Security W (3-0) [0.50]
The prevalence of food insecurity in Canada and selected industrialized and non-industrialized countries is examined. The course will review environmental, social, and other factors associated with food insecurity and take critical look at the effectiveness of programs and policies designed to improve food security. Department of Family Relations and Applied Nutrition.
Prerequisite(s): 9.50 credits including NUTR*2050
Restriction(s): Registration is limited to students registered in the B.A.Sc. AHN major

NUTR*3150 Aging and Nutrition W (3-0) [0.50]
This course provides an in-depth study of the determinants of food intake and nutrient recommendations for aging adults. Specific consideration will be given to eating environments and physiological changes that influence access, preparation, and consumption of food by older adults living in the community and in facilities. An emphasis will be placed on chronic disease prevention and management. Department of Family Relations and Applied Nutrition.
Prerequisite(s): 1 of NUTR*1010, NUTR*2150, NUTR*3210
Restriction(s): NUTR*2070

NUTR*3210 Fundamentals of Nutrition F,W (3-0) [0.50]
This is the foundation course for the study of nutrition. The occurrence, uptake and metabolic role of nutrients will be discussed in relation to growth, reproduction and longevity in human subjects, domestic animals and other species. Department of Human Health and Nutritional Sciences.
Prerequisite(s): BIOG*2580

NUTR*3330 Micronutrients, Phytochemicals and Health F (3-0) [0.50]
The course emphasizes the biochemical basis for the dietary essentiality of vitamins and minerals. The course extends the fundamentals of nutrition to include conditional essentiality of micronutrients, biochemical individuality and the use of micronutrient supplementation to promote human and animal health. Both plant and animal sources of nutrients are discussed. Department of Human Health and Nutritional Sciences.
Prerequisite(s): NUTR*3210
Restriction(s): Registration in the B.Sc. NANS major or minor and the B.Sc. FFAN minor.

NUTR*3390 Applied Nutritional and Nutraceutical Sciences I F (3-3) [0.75]
This course will introduce and develop key concepts of the applied aspects of the Nutritional and Nutraceutical Sciences. Enrichment of foods with health protectant chemicals, establishing biomarkers and risk indicators of disease, testing of bioavailability/efficacy to support basic health claims, health assessment and nutrigenomic analysis as adjuvants in the effective use of functional foods and nutraceuticals, and regulatory and marketing/consumer issues are topics that will be addressed. Department of Human Health and Nutritional Sciences.
Prerequisite(s): NUTR*3210
Restriction(s): Registration in the B.Sc. NANS major or minor and the B.Sc. FFAN minor.

NUTR*4010 Nutritional Assessment F (3-0) [0.50]
This course examines the principles and methods used in nutritional assessment of individuals and populations in health and disease states. Dietary, anthropometric and biochemical techniques will be primary components. Nutritional screening, advanced techniques for body composition assessment, physical exam and clinical indicators will also be addressed. Significant independent learning will be required. Department of Family Relations and Applied Nutrition.
Prerequisite(s): 14.50 credits including NUTR*2050, NUTR*3210
Restriction(s): Registration in the B.A.Sc. AHN major.

NUTR*4040 Clinical Nutrition II F (3-0) [0.50]
This course is a continuation of NUTR*3090. This lecture based course is concerned with the application of nutrition to clinical conditions. Methods and content of medical nutrition therapy in prevention and treatment of gastrointestinal, renal, hepatic diseases and catabolic states will be emphasized. Ethical issues in nutrition management of disease and health professional practice will be addressed. Department of Family Relations and Applied Nutrition.
Prerequisite(s): 14.50 credits including, [1 of BIOM*2000, ( BIOM*3100 or BIOM*3110 ) , BIOM*3200], ( NUTR*3040 or NUTR*5090)
Restriction(s): Registration in the B.A.Sc. AHN major.

NUTR*4070 Nutrition Education F (3-0) [0.50]
This course covers methods and approaches in nutrition education with particular emphasis on community programs in nutrition for different age groups; dietary counselling; nutrition education in the preschool, in prenatal and other specialized programs. Department of Family Relations and Applied Nutrition.
Prerequisite(s): FRHD*3400, NUTR*2050
Restriction(s): This is a Priority Access course. Registration may be restricted to students registered in B.A.Sc. majors and the Family and Child Services minor during certain time periods.

NUTR*4090 Functional Foods and Nutraceuticals W (3-0) [0.50]
The course examines the relation of functional foods and nutraceuticals (FFN) to foods and drugs. The safety and efficacy of individual FFN products, and the regulatory issues that influence the development and commercialization of FFN in global markets are emphasized. The course is co-operatively taught by the Department of Human Health and Nutritional Sciences and the Department of Food Science. (Also listed as FOOD*4090.)
Prerequisite(s): NUTR*3210
Equate(s): FOOD*4090
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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>NUTR*4210</td>
<td>Applied Clinical Skills W (0-3) [0.50]</td>
<td>0.50</td>
<td>This is a laboratory-based course which will enable students to gain skills in independently completing nutrition assessments and care plans of individuals and groups as they would be expected to do as nutrition professionals. Students will comprehensively assess nutritional status, apply knowledge of human physiology, pathophysiology, medical terminology and nutritional assessment to diagnose nutritional problems/issues and formulate, implement and evaluate a nutrition intervention. Prerequisite(s): NUTR<em>4010, NUTR</em>4040. Restriction(s): NUTR*4850. Restricted to students in B.A.Sc. AHN with at least 75% grade average in all completed NUTR and FRHD courses.</td>
</tr>
<tr>
<td>NUTR*4320</td>
<td>Nutrition, Exercise and Energy Metabolism F (3-0) [0.50]</td>
<td>0.50</td>
<td>In this course energy metabolism will be considered under the headings: thermodynamic principles, energy deposition and hormonal control of metabolism; nutrition, exercise and environmental influences on energy balance and enzyme adaptation; nutrition and exercise in the control of body composition. Department of Human Health and Nutritional Sciences. Prerequisite(s): NUTR<em>3210. (1 of BIOM</em>3110, BIOM<em>3200, HK</em>3940)</td>
</tr>
<tr>
<td>NUTR*4320</td>
<td>Nutrition and Metabolic Control of Disease W (3-0) [0.50]</td>
<td>0.50</td>
<td>This course provides a discussion of disorders of metabolism, either inherited or acquired, in which nutrition plays a major role in the etiology, pathogenesis, or treatment. The nutritional control of the affected metabolic pathways and the interaction of nutrition with exercise, drugs and gene therapy will be presented. Department of Human Health and Nutritional Sciences. Prerequisite(s): NUTR<em>3210. (1 of BIOM</em>3110, BIOM<em>3200, HK</em>3940, ZOO*3210)</td>
</tr>
<tr>
<td>NUTR*4330</td>
<td>Applied Nutritional and Nutraceutical Sciences II W (3-3) [0.75]</td>
<td>0.75</td>
<td>In this course laboratory and other investigational techniques are covered, together with their underlying concepts. The course is designed to enhance understanding of the design and use of nutraceuticals for human and animal health. Department of Human Health and Nutritional Sciences. Prerequisite(s): NUTR<em>3210, NUTR</em>3330, NUTR<em>3390, HK</em>3940</td>
</tr>
<tr>
<td>NUTR*4350</td>
<td>Current Issues in Lifestyle Genomics and Nutrition F (3-0) [0.50]</td>
<td>0.50</td>
<td>This course discusses controversial and/or emerging topics in Human Health and Nutritional and Nutraceutical Sciences. Topics of current interest will be announced during the course selection period. Department of Human Health and Nutritional Sciences. Prerequisite(s): NUTR<em>3210, HK</em>3940, (MBG<em>2020 or MBG</em>2040)</td>
</tr>
<tr>
<td>NUTR*4360</td>
<td>Current Issues in Nutrigenomics W (3-0) [0.50]</td>
<td>0.50</td>
<td>This course discusses controversial and/or emerging topics in Human Health and Nutritional and Nutraceutical Sciences as it relates to nutrigenomics. Department of Human Health and Nutritional Sciences. Prerequisite(s): NUTR<em>3210, (BIOM</em>3200 or HK*3940)</td>
</tr>
<tr>
<td>NUTR*4510</td>
<td>Toxicology, Nutrition and Food F (3-0) [0.50]</td>
<td>0.50</td>
<td>This course examines the role of foods, herbals and nutraceuticals as sources of antinutrients, natural toxins and environmental contaminants. The impact of toxic exposures on nutritional status, the impact of nutritional status on safe metabolism of toxins, and the use of this knowledge in the design of functional foods are also examined. Assessing the risk of genetically modified foods and radioactive contamination of a food supply. Department of Human Health and Nutritional Sciences. Prerequisite(s): NUTR*3210</td>
</tr>
<tr>
<td>NUTR*4900</td>
<td>Selected Topics in Human Nutrition W (3-0) [0.50]</td>
<td>0.50</td>
<td>This course requires reading and discussion on selected areas in human nutrition and its application; formal class reports and term papers. Primarily for Applied Human Nutrition majors. Department of Family Relations and Applied Nutrition. Prerequisite(s): FRHD<em>3070, (NUTR</em>3040 or NUTR<em>3090), NUTR</em>4010. Restriction(s): Registration in B.A.Sc. AHN major.</td>
</tr>
<tr>
<td>NUTR*4910</td>
<td>Applied Human Nutrition Thesis II U (6-0) [1.00]</td>
<td>1.00</td>
<td>The student will conduct and write an undergraduate thesis under the direction of a faculty member. Prerequisite(s): NUTR*4810</td>
</tr>
</tbody>
</table>

**NUTR*4910 Applied Human Nutrition Thesis II U (6-0) [1.00]**

This course provides an opportunity for students to conduct and write an undergraduate thesis under the direction of a faculty member.

**Prerequisite(s):** NUTR*4810

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**Last Revision: Oct. 19, 2012**
### OAGR*2070 Introduction to Organic Agriculture

**W (3-3) [1.00]**

Students will be exposed to the scale of the organic industry today, including the factors driving interest in organics for both producers and consumers. The foundational principles underlying contemporary organic agriculture will be presented and first hand experience of current organic practices will be provided. In addition, this course will rely on small group mentoring to stimulate independent, learner-centered analysis of selected topics in organic agriculture. Department of Plant Agriculture and School of Environmental Sciences.

**Prerequisite(s):** 5.00 credits  
**Restriction(s):** OAGR*2050, OAGR*3030

### OAGR*2300 Organic Marketing

**F (3-0) [0.50]**

In this course economic theory of markets principles are applied to the marketing of organically-produced and processed products through exploring open market price formation, value added, marketing margins, alternative marketing outlets and branding. Adherence to organic production and marketing standards, quality management, supply chain management, and advertising and promotion issues are also addressed. (Offered in Distance Education format only.)

**Prerequisite(s):** ECON*1050 or MCS*1000  
**Equate(s):** AGEC*2300  
**Restriction(s):** Not available for credits to students in BCOMM.

### OAGR*4050 Design of Organic Production Systems

**F (6-0) [1.00]**

Students will apply organic agriculture principles to the design and concept of agricultural operations, taking into account the interactions of soils, plants and animals with environmental and managerial factors. Department of Plant Agriculture. (First offering - Fall 2013)

**Prerequisite(s):** OAGR*2070  
**Restriction(s):** OAGR*3130, OAGR*4160

### OAGR*4180 Social Issues in Organic Agriculture

**W (2-2) [0.50]**

This interdisciplinary course will examine the major social issues in organic agriculture from both a global and local perspective, with an emphasis on synthesis and integration. Issues will include globalization, sustainability, gender, food, social movements, the organic agri-food system, rural communities, and the role of the family farm.

**Prerequisite(s):** 1 of EDRD*3400, (OAGR*3030, OAGR*3130), SOC*2080  
**Equate(s):** EDRD*4180, REXT*4180
# Pathology

Department of Pathobiology

Additional course listings may be found in the course descriptions for Veterinary Medicine.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
<th>Restriction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PATH*3040</td>
<td>Principles of Parasitology W (3-3) [0.50]</td>
<td></td>
<td>10.00 credits including at least 1.50 credits in biology.</td>
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</tr>
<tr>
<td>PATH*3610</td>
<td>Principles of Disease W (3-0) [0.50]</td>
<td></td>
<td>1.50 credits in biology</td>
<td>PATH*3600</td>
</tr>
<tr>
<td>PATH*4100</td>
<td>Diseases of Aquatic Animals F (2-2) [0.50]</td>
<td></td>
<td>PATH*3610</td>
<td></td>
</tr>
</tbody>
</table>

Parasitism is the most common biological association on the planet; virtually all organisms are parasitized by numerous parasites and many, such as the protozoa that cause malaria, are responsible for serious medical and/or veterinary diseases. This course will provide an in-depth introduction to parasites and parasitism by exploring common protists, helminths and arthropods that infect animals and humans globally. The nature of parasitism will be explored by examining the development and transmission of many common parasitic agents, including their pathogenesis, zoonotic potential, diagnosis and treatment options.

**Prerequisite(s):** 10.00 credits including at least 1.50 credits in biology.

A course designed for students with particular interests in nutrition and biology. The course presents basic concepts of disease in the cells, tissues, organs and fluids of the body. Emphasis will be on disease processes resulting from physical, toxic and microbiological and other causes. (Also offered through Distance Education format.)

**Prerequisite(s):** 1.50 credits in biology

A course designed to familiarize the fisheries manager, researcher or veterinarian with the basic principles of diagnosis, prevention, and control of disease of free living and captive aquatic animals, with emphasis on fish. (Offered in odd-numbered years.)

**Prerequisite(s):** PATH*3610
Pharmacology
Department of Biomedical Sciences.

For course listings and descriptions see Biomedical Sciences.
Additional course listings may be found in the course descriptions for Veterinary Medicine and Toxicology.
XII. Course Descriptions, Philosophy

Philosophy

Department of Philosophy

Note: Specific descriptions of all courses to be offered in a given semester will be available from the Department of Philosophy in each preceding semester. Students are advised to consult these descriptions. Different sections of a course often emphasize different aspects of that course.

1. All 2000 level philosophy courses are open to students who have completed 5.00 credits or who have completed one of PHIL*1000, PHIL*1010, PHIL*1050.

2. Unless otherwise noted, 3000 level philosophy courses are open to students who have completed at least 1.50 credits in philosophy or 7.50 credits.

3. For most 4000 level courses, students are expected to have completed at least 1.00 credits in philosophy at the 3000 level. Some 4000 level credits have specific prerequisites, e.g. PHIL*4230, PHIL*4360 (see course descriptions in the following pages). If a student is taking several credits with such prerequisites, then the number of other philosophy credits which need to be completed may exceed the general requirement of 1.00 credits at the 3000 level. PHIL*4310 is designed to be open to seventh and eighth semester students who have no previous philosophy credit. If in doubt about being well prepared for a particular course, the student should consult with either the instructor or the chair of the department.

4. Students may receive credit for PHIL*1000, PHIL*1010 and PHIL*1050, but only one may be counted towards the minimum number of philosophy credits required for a degree in philosophy. Students intending to proceed in the discipline at the 2000 level are advised to take only 0.50 credits at the 1000 level.

PHIL*1000 Introductory Philosophy: Major Texts F,W (3-0) [0.50]
This course will deal with enduring philosophical questions through an exploration of primary texts in the history of philosophy. Topics covered may include the nature of knowledge and the different types of knowledge, the relationship between the mind and the body, and the nature of good and evil. Texts and topics will vary with the instructor; students are advised to consult the Philosophy department's website: http://www.uoguelph.ca/philosophy/.

PHIL*1010 Introductory Philosophy: Social and Political Issues F,W (3-0) [0.50]
This course introduces philosophy through an examination of important issues in politics and society, such as punishment, animal rights, discrimination, war and violence, equality and property. These issues may be introduced through contemporary or historical philosophical writings.

PHIL*1050 Introductory Philosophy: Basic Problems F,W (3-0) [0.50]
This course introduces students to philosophy through the exploration of basic perennial philosophical problems and questions, such as whether there is free will, a God, objective right and wrong, genuine knowledge of the world, and other topics. The readings for the course will consist primarily of 20th century philosophical writing.

PHIL*2030 Philosophy of Medicine F,W (3-0) [0.50]
Medicine is a philosophical, not merely a practical, empirical enterprise. This course covers philosophical concepts which are widely used to evaluate health and health-practices: include: autonomy, consent, mind, will, rights, harm, fairness, dignity, truth and even 'health' itself. Issues central to health and health care practice include: the nature of professional-client relationships, genetic counseling, passive and active euthanasia, pharmacology and behaviour modification, resource allocation, and the special set of issues raised by reproductive technologies.
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2060 Philosophy of Feminism I W (3-0) [0.50]
This course examines metaphysical, epistemological and ethical issues in feminist philosophy, including such topics as the nature and consequences of patriarchy, human nature, sexual divisions of labour, women's studies, rationalizations of inequalities and explorations into a contemporary feminist agenda for social, political and economic changes.
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2070 Philosophy of the Environment W (3-0) [0.50]
Environmental Philosophy asks questions such as: How has 'nature' been conceptualized in the Western philosophical tradition, in aesthetics, science, and ethics? What arguments have been offered for the view that humans are superior among creatures? What connections might there be between the ways that nature, humankind, and animals have been conceptualized and the ways that humans have tended to act toward the non-human natural environment? This course may cover such topics as: climate change, resource extraction and justice, biotechnology, obligations to future generations, risk assessment and discount rates, species loss, conservation vs. preservation. (Also offered through Distance Education format.)
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2100 Critical Thinking F,W (3-0) [0.50]
This course is designed to develop clarity of thought and method in the analysis and construction of arguments. By contrast to PHIL*2110, the emphasis here is upon informal principles of critical thinking and arguments stated in terms of ordinary language. Topics include the nature and methods of arguing, classification, definition and fallacies.
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2110 Elementary Symbolic Logic W (3-0) [0.50]
This course studies the basic principles and techniques of formal logic. The analysis of the logical structure of sentences and arguments is explored, together with the fundamental principles of elementary sentential logic and quantification.
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2120 Ethics F,W (3-0) [0.50]
Philosophical ethics is the attempt to systematize, explain, and justify the standards by which we evaluate our conduct as persons. The course may include treatment of controversial ethical issues such as abortion, euthanasia, war, and the treatment of animals and will cover many of the following questions: can we expect to find a single, universal code of ethics that applies to all human beings, or do such codes vary for each society or even for each individual? What are the roles of reason and emotion in ethics? Is morality grounded on a principle, and if so, what is it? Are there any traits of character that one must have to be a good person? Given that traditional ethical codes have been almost universally sexist, how must ethics be refashioned in order for women to achieve equal recognition? (Also offered through Distance Education format.)
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2130 Philosophy of Religion F (3-0) [0.50]
This course considers various philosophical questions concerning religion, such as arguments for the existence of God, the problem of evil, the meaning of religious language, the significance of mystical experience and human immortality. (Offered in even-numbered years.)
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2140 History of Greek and Roman Philosophy F (3-0) [0.50]
A survey of the beginnings of Western philosophy, this course will focus on themes such as the nature of reality, the ways we might come to have knowledge, and the good life for human beings. This course will typically consider such thinkers as Socrates, Plato, Aristotle, Epicetus, Cicero and Seneca, although the specific course content will vary with the instructor.
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2160 Modern European Philosophy to Hume W (3-0) [0.50]
This course surveys European philosophy from the Renaissance (15th century) to David Hume (mid-18th century).
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2170 Existentialism W (3-0) [0.50]
Existentialism is a philosophy built around the experience of human freedom. This course focuses on the character of the subject who makes choices, and on the personal and political responsibilities that attach to the making of decisions. The course will examine this and other themes associated with Existentialism through nineteenth and twentieth century representatives, which may include Kierkegaard, Sartre, de Beauvoir, Camus and others. (Offered in odd-numbered years.)
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2180 Philosophy of Science F (3-0) [0.50]
As a system of knowledge pursuit, science develops laws and theories to explain, predict, understand, and control empirical phenomena. This course introduces students to many of the challenging assumptions, foundations, and implications of science. Topics include the nature of scientific knowledge, the structure of scientific theories, the distinction between science and pseudo-science, whether there is a scientific method, and how social and political processes influence the way science develops.
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)

PHIL*2210 Philosophy of Literary Art F (3-0) [0.50]
The course will engage with literary art forms (fiction, drama, poetry, and film) for philosophical goals. Possible emphases include the use of literary works to express philosophical topics; philosophical investigations of the nature of literary arts; and philosophies of interpretation of such art forms (e.g., classical poetics, hermeneutics, deconstruction, analytical aesthetics). (Offered in odd-numbered years.)
Prerequisite(s): 2.00 credits or (1 of PHIL*1000, PHIL*1010, PHIL*1050)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL*2250</td>
<td>Knowledge, Mind and Language F (3-0)</td>
<td>0.50</td>
<td>This course is an introduction to the nature and possibility of knowledge, in connection with the nature of mind and the role of language in shaping experience. This is a central area of philosophy. Prerequisite(s): 2.00 credits or (1 of PHIL<em>1000, PHIL</em>1010, PHIL*1050)</td>
</tr>
<tr>
<td>PHIL*2350</td>
<td>Selected Topics in Philosophy I U (3-0)</td>
<td>0.50</td>
<td>The topics for this course will vary from one offering to the next, and will deal with material not available in regular courses. Topics for this course will be chosen from the instructor's research in progress. Students are encouraged to consult the departmental website for course content and availability: <a href="http://www.uoguelph.ca/philosophy/">http://www.uoguelph.ca/philosophy/</a>. Prerequisite(s): 2.00 credits or (1 of PHIL<em>1000, PHIL</em>1010, PHIL*1050)</td>
</tr>
<tr>
<td>PHIL*2370</td>
<td>Introduction to Metaphysics W (3-0)</td>
<td>0.50</td>
<td>This course studies major theories of the nature of reality, and of issues and problems that arise in the investigation of fundamental features of the world. Texts read may be either historical or contemporary. Among possible topics explored in the course are materialism, free will, and determinism, the nature of time, and the position of consciousness in the world. (Offered in even-numbered years.) Prerequisite(s): 2.00 credits or (1 of PHIL<em>1000, PHIL</em>1010, PHIL*1050)</td>
</tr>
<tr>
<td>PHIL*2600</td>
<td>Business and Professional Ethics W (3-0)</td>
<td>0.50</td>
<td>This course examines ethical and evaluative issues relating to business and professional practices, and is intended for students registered in a science or professional program, but without a background in philosophy. Topics to be explored include the nature of values and ethical systems, duties and rights, private and public goods, the consumer movement, social marketing, corporate social accounting, private right and professional responsibility. Prerequisite(s): 2.00 credits or (1 of PHIL<em>1000, PHIL</em>1010, PHIL*1050)</td>
</tr>
<tr>
<td>PHIL*3040</td>
<td>Philosophy of Law F (3-0)</td>
<td>0.50</td>
<td>This course is an introduction to the main topics in the philosophy of law. It aims to give students a philosophical grounding in such issues as the purpose and nature of law, the relationship between law and individual freedom and the question of international law. Authors studied may include St. Thomas Aquinas, John Stuart Mill and H.L.A. Hart. The course may also include an examination of the way in which controversial ethical and social issues are treated under the Canadian Charter of Rights and Freedoms. Prerequisite(s): 1.50 credits in Philosophy or 7.50 credits or PHIL*2120</td>
</tr>
<tr>
<td>PHIL*3050</td>
<td>Philosophy of Art W (3-0)</td>
<td>0.50</td>
<td>This course considers various philosophical questions concerning art such as the nature of a work of art, the nature of beauty, the relationship between the artist and the audience, the task of the art critic, the social function of art. (Offered in odd-numbered years.) Prerequisite(s): 1.50 credits in Philosophy or 7.50 credits</td>
</tr>
<tr>
<td>PHIL*3060</td>
<td>Medieval Philosophy W (3-0)</td>
<td>0.50</td>
<td>The ideas of central figures in philosophy from the Patristic period (3rd century A.D.) to the early Renaissance (14th century) will be examined through original sources. (Offered in odd-numbered years.) Prerequisite(s): 1.50 credits in Philosophy</td>
</tr>
<tr>
<td>PHIL*3080</td>
<td>History of Modern European Philosophy from Kant F (3-0)</td>
<td>0.50</td>
<td>A survey of European philosophy from Immanuel Kant (mid-18th century) to the late 19th century. Prerequisite(s): 1.50 credits in Philosophy</td>
</tr>
<tr>
<td>PHIL*3090</td>
<td>Philosophy of Kant W (3-0)</td>
<td>0.50</td>
<td>Kant revolutionized the philosophical tradition of investigating objectivity (asking what the nature of reality is, in itself) by investigating subjectivity (asking how knowledge is possible for us). This course will typically examine one of Kant's Critiques and/or a central philosophical theme that appears in Kant's works. (Offered in even-numbered years.) Prerequisite(s): 1.50 credits in Philosophy</td>
</tr>
<tr>
<td>PHIL*3130</td>
<td>Contemporary British and American Philosophy F (3-0)</td>
<td>0.50</td>
<td>Ludwig Wittgenstein and other Vienna philosophers of the early 20th century believed that much of traditional philosophy was meaningless word-play, and that the reason many people didn't see this is that it's difficult to distinguish the meaningless from the meaningful. Their attempts to do so - taking what Richard Rorty called &quot;the linguistic turn&quot; - shaped much of 20th century philosophy in English-speaking countries. This course will critically examine the original movement, some attempts to apply its ideas in various areas such as epistemology, ethics and philosophy of mind, and some ideas that arose in reaction to the original movement, e.g., so-called &quot;ordinary language philosophy,&quot; neopragmatism and naturalized philosophy. Prerequisite(s): 1.50 credits in Philosophy or 7.50 credits</td>
</tr>
<tr>
<td>PHIL*3170</td>
<td>Critical Debates in the Philosophy of Science W (3-0)</td>
<td>0.50</td>
<td>This course studies specialized questions about science within a broad intellectual and social context. Contested issues regarding the nature of science, its aims and methods, and science's relation to society will be critically examined. Past offerings of the course have examined such topics as realism and antirealism, naturalized explanations, the unity/disunity of science, and feminist approaches to science. (Offered in even-numbered years.) Prerequisite(s): PHIL*2180</td>
</tr>
<tr>
<td>PHIL*3180</td>
<td>Philosophy of Mind W (3-0)</td>
<td>0.50</td>
<td>This course is a survey of central issues and positions in contemporary philosophy of mind. Topics may include: the nature of the mind and its relation with the brain; the puzzle of conscious experience; and the problem of mental content. (Offered in even-numbered years.) Prerequisite(s): 1.50 credits in Philosophy</td>
</tr>
<tr>
<td>PHIL*3190</td>
<td>Theory of Knowledge I F (3-0)</td>
<td>0.50</td>
<td>This course is an advanced introduction to the central issues in epistemology, such as the nature of knowledge and how it differs from mere true belief. Possible topics include skepticism, theories of justification and rationality, self-knowledge and the sources of belief. (Offered in odd-numbered years.) Prerequisite(s): 1.50 credits in Philosophy</td>
</tr>
<tr>
<td>PHIL*3200</td>
<td>Contemporary European Philosophy W (3-0)</td>
<td>0.50</td>
<td>A survey of philosophical movements mainly centred in continental Europe from the late 19th-century to the present. Prerequisite(s): 1.50 credits in Philosophy</td>
</tr>
<tr>
<td>PHIL*3210</td>
<td>Women in the History of Philosophy F (3-0)</td>
<td>0.50</td>
<td>This course will examine selected works of women philosophers and their contributions to the major philosophical debates of their day. The philosophers covered may be drawn from any period in the history of philosophy, up to, and including, the 20th century and topics covered have ranged across feminist issues, epistemology, metaphysics, and ethics. Because texts and topics will vary with the instructor, students are advised to consult the departmental website: <a href="http://www.uoguelph.ca/philosophy/">http://www.uoguelph.ca/philosophy/</a>. (Offered in odd-numbered years.) Prerequisite(s): 1.50 credits in Philosophy or 7.50 credits</td>
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<tr>
<td>PHIL*3220</td>
<td>Issues in Social and Political Philosophy W (3-0)</td>
<td>0.50</td>
<td>Social or political philosophy is the area of philosophy concerned with the morality of major social institutions such as the state, the economy, and the family. This course may engage in the detailed examination of one or more of the following questions: what justifies the state's claim to authority? What are the proper dimensions of individual liberty? What levels of material and social equality are required for a society to be just? These questions will be pursued through reading historical and/or contemporary philosophical texts. (Offered in even-numbered years.) Prerequisite(s): 1.50 credits in Philosophy or 7.50 credits</td>
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<tr>
<td>PHIL*3240</td>
<td>Philosophy of Technology F (3-0)</td>
<td>0.50</td>
<td>This course examines the philosophical problems associated with technology. Topics may include the nature of technology, the relation between technology and science, and the various critiques of technology - religious, political, ethical and existentialist - in contemporary society. (Offered in odd-numbered years.) Prerequisite(s): 1.50 credits in Philosophy or 7.50 credits</td>
</tr>
<tr>
<td>PHIL*3250</td>
<td>Philosophy of Language F (3-0)</td>
<td>0.50</td>
<td>This course will explore the relationship between human beings and language, and between language and the world. In particular, it may address such fundamental questions as: What is it about the way in which we use words that gives them the meanings they have? And what is the relationship between words and objects to which they refer? Authors studied may include representatives from the analytic and/or continental traditions in philosophy. (Offered in even-numbered years.) Prerequisite(s): 1.50 credits in Philosophy or 7.50 credits</td>
</tr>
<tr>
<td>PHIL*3280</td>
<td>21st Century Philosophy F (3-0)</td>
<td>0.50</td>
<td>This course is an introduction to the most current philosophical texts and movements developed since the beginning of the 21st Century. Students will be taught to understand and work creatively with the most recent ideas in the discipline. Material covered will focus almost exclusively on the philosophical texts written in or after the year 2000. Prerequisite(s): 1.50 credits in Philosophy</td>
</tr>
</tbody>
</table>
PHIL*3350 Selected Topics in Philosophy II U (3-0) [0.50]

The topics for this course will vary from one offering to the next, and will deal with material, such as Philosophy of History, Philosophy of Social Science and advanced Philosophy of Religion generally arising from the instructor's current research interests. This course gives students a chance to explore topics and texts not usually covered in other courses at a more advanced level than PHIL*2350. Students are encouraged to consult the departmental website for course content and availability: http://www.uoguelph.ca/philosophy/

Prequisite(s): 1.50 credits in Philosophy or 7.50 credits

PHIL*3410 Major Texts in the History of Philosophy W (3-0) [0.50]

This course will consider central and continuing philosophical issues through an exploration of primary texts in the history of philosophy. The readings and periods stressed will vary from year to year, but could cover significant and enduring texts from the ancient period right up to the 21st century. Texts and topics will vary with the instructor; students are advised to consult the Philosophy department's website: http://www.uoguelph.ca/philosophy/

Prequisite(s): 1.50 credits in Philosophy or 7.50 credits

PHIL*3420 Philosophical Problems of Religion F (3-0) [0.50]
The course offers a detailed examination of major problems and writings in the philosophy of religion. (Offered in odd-numbered years.)

Prequisite(s): 1.50 credits in Philosophy, including one of PHIL*2130, PHIL*3910, PHIL*3920

PHIL*3450 Ethics in the Life Sciences W (3-0) [0.50]

This course is an advanced introduction to the ethical implications of values and practices guiding research in the life sciences. Fields of discussion may include ethics in health care, genetics and human reproduction, environmental sciences, agriculture, animal husbandry, animal welfare, and food technologies. Material covered will be drawn from current books and articles by philosophers in this rapidly expanding area.

Prequisite(s): 1.50 credits in Philosophy, PHIL*2120, PHIL*2180 are recommended.

PHIL*3710 Directed Reading F,W (3-0) [0.50]

This course is intended as an intensive course of reading chosen by the student in consultation with the faculty member.

Prequisite(s): 1.50 credits in Philosophy or 7.50 credits

Restriction(s): Instructor consent required.

PHIL*3720 Directed Reading F,W (3-0) [0.50]

This course is intended as an intensive course of reading chosen by the student in consultation with the faculty member.

Prequisite(s): 1.50 credits in Philosophy or 7.50 credits

Restriction(s): Instructor consent required.

PHIL*3910 Indian Philosophy F (3-0) [0.50]

This course provides an analysis of selected primary sources of Indian philosophy in translation, from the Vedic Upanishads to the "integral yoga" of Sri Aurobindo. Emphasis will be on the basic inspirational works of Hinduism and Buddhism, and their respective views on the ultimate nature of reality, the self, suffering, freedom, ignorance and enlightenment. (Offered in even-numbered years.)

Prequisite(s): 1.50 credits in Philosophy or 7.50 credits

PHIL*3920 Chinese Philosophy W (3-0) [0.50]

This course analyzes selected primary sources of Chinese philosophy, in translation, from the Ching to Mao Tse-tung. Emphasis will be on the foundational works of Confucianism, Taoism, Ch'an (or Zen) Buddhism, and Neo-Confucianism, concerning such issues as the ultimate nature of being, non-being and human destiny, proper government of the self, the family and society, and the principles and practice of enlightenment. (Offered in odd-numbered years.)

Prequisite(s): 1.50 credits in Philosophy or 7.50 credits

PHIL*3930 African Philosophy F (3-0) [0.50]

An introduction to the philosophical traditions of Africa, part historical and part contemporary. The shorter historical section will cover some themes from the thought of ancient Egypt, early Christian and Islamic philosophy in North Africa and precolonial traditions from West Africa. The greater section of the course will deal with philosophical movements in Africa since the 1960's, as well as their implications for African American thought and philosophy generally. (Offered in even-numbered years.)

Prequisite(s): 1.50 credits in Philosophy or 7.50 credits

PHIL*4040 Advanced Philosophy of the Environment U (3-0) [0.50]

This course is an exploration in detail of central debates in environmental philosophy. Possible topics include: genetic modification of plants and animals, duties to future generations, obligations to distant global others, the ethics of encounters, animal welfare, trans-species communication, restoration and conservation projects, aesthetics, virtue ethics and stewardship.

Prequisite(s): 1.00 credits in Philosophy at the 3000 level. PHIL*2070 recommended

PHIL*4060 Philosophy of Feminism II U (3-0) [0.50]

This course is an advanced study of problems in feminist philosophy. The course may cover specific topics or the work of one or more feminist philosophers. Topics may be drawn from feminist ethics, epistemology, and/or postmodernism. Texts and topics will vary with the instructor; students are advised to consult the Philosophy department's website: http://www.uoguelph.ca/philosophy/

Prequisite(s): 1.00 credits in Philosophy at the 3000 level or PHIL*2060

PHIL*4110 Symbolic Logic U (3-0) [0.50]

A study of issues and techniques beyond the level of elementary sentential logic and quantification. A consideration of some topics in logical theory. An extension of material explored in PHIL*2110, with special focus on philosophical aspects or implications of formal logic.

Prequisite(s): PHIL*2110, 1.00 credits in Philosophy at the 3000 level

PHIL*4160 Philosophy Field Course F (3-0) [1.00]

This variable content course addresses an issue which is relevant to the contemporary world from a range of philosophical perspectives. The course is built on research into the issue, including material gathered during a 1-2 week field trip which is held in the summer immediately preceding the semester in which the student takes the course. The field trip is a mandatory component of the course, one for which the student assumes the costs of transportation, food and lodging.

Prequisite(s): 13.00 credits and a minimum cumulative average of 70%.

Restriction(s): Restricted to students in Philosophy major or minor, or Ethics in the Life Sciences minor. Instructor consent required.

PHIL*4230 Social and Political Philosophy U (3-0) [0.50]

This is an advanced level course that examines in detail selected historical or contemporary treatments of specific issues in social and political philosophy.

Prequisite(s): PHIL*2120 or PHIL*3230, 1.00 credits in Philosophy at the 3000 level

PHIL*4270 Recent Philosophical Issues U (3-0) [0.50]

This course studies primary philosophical texts since 1965. The focus of the course will alternate between analytic texts and issues and continental texts and issues. Texts and topics will vary with the instructor; students are advised to consult the Philosophy department's website: http://www.uoguelph.ca/philosophy/

Prequisite(s): 2.00 credits in Philosophy including 1.00 credits at the 3000 level

PHIL*4310 Applied Ethics U (3-0) [0.50]

An advanced study of specific problems in applied ethics. This is an intensive course designed for philosophy majors as well as for seventh and eighth semester students who have had no previous philosophy course.

PHIL*4340 Advanced Ethics U (3-0) [0.50]

This course offers an advanced study of problems in ethical theory. This course will examine contemporary and perennial issues in ethics through recent or historical texts. Texts and topics will vary with the instructor; students are advised to consult the Philosophy department's website: http://www.uoguelph.ca/philosophy/

Prequisite(s): PHIL*2120, 1.00 credits in Philosophy at the 3000 level

PHIL*4360 Theory of Knowledge II U (3-0) [0.50]

An examination of central problems concerning the nature of knowledge. In some offerings the selection will emphasize problems in the Philosophy of Language.

Prequisite(s): 2.50 credits in Philosophy or PHIL*3190

PHIL*4370 Metaphysics U (3-0) [0.50]

An advanced study of problems concerning the nature of reality.

Prequisite(s): 1.00 credits in Philosophy at the 3000 level

PHIL*4390 Selected Topics in Philosophy III U (3-0) [0.50]

Open to honours philosophy students in their 7th and 8th semesters.

Prequisite(s): 1.00 credits in Philosophy at the 3000 level

PHIL*4400 Major Texts in Philosophy U (3-0) [0.50]

Advanced study of a major text in philosophy not treated in either PHIL*4410 or PHIL*4420.

Prequisite(s): 1.00 credits in Philosophy at the 3000 level
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Course Description</th>
<th>Prerequisite(s)</th>
<th>Restriction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL*4410</td>
<td>Major Texts in Philosophy U (3-0) [0.50]</td>
<td></td>
<td>Advanced study of a major text in philosophy not treated in either PHIL<em>4400 or PHIL</em>4420.</td>
<td>1.00 credits in Philosophy at the 3000 level</td>
<td></td>
</tr>
<tr>
<td>PHIL*4420</td>
<td>Major Texts in Philosophy U (3-0) [0.50]</td>
<td></td>
<td>Advanced study of a major text in philosophy not treated in either PHIL<em>4400 or PHIL</em>4410.</td>
<td>1.00 credits in Philosophy at the 3000 level</td>
<td></td>
</tr>
<tr>
<td>PHIL*4500</td>
<td>Philosophy Honours Seminar U (3-0) [1.00]</td>
<td></td>
<td>This research seminar provides philosophy majors with an opportunity to apply the knowledge gained in their previous studies to an in-depth, independent research paper. This course permits deep engagement through time for high-level critical reflection. Students will work closely with the instructor to prepare a conference-style and article-length paper. Topics or themes on offer will vary according to the expertise of the faculty member who leads the seminar; students will develop their focus in consultation with the instructor and through in-class presentations. This seminar is recommended for students who have achieved a minimum 78% average in their philosophy courses.</td>
<td>1.00 credits in Philosophy at the 3000 level</td>
<td>75% average in all Philosophy course attempts. Registration restricted to Philosophy majors.</td>
</tr>
<tr>
<td>PHIL*4550</td>
<td>Philosophy Honours Workshop U (3-0) [1.00]</td>
<td></td>
<td>This course trains upper level students in advanced methods of philosophical analysis. Through a workshop format, students will hone their creative and critical skills. Students will learn to analyze and make use of such methods as phenomenology and dialectics, hermeneutics and deconstruction, analytic philosophy and the use of formal logic in conceptual analysis, as well as other methods (including classical methods in philosophy). Editing and peer-reviewing skills will also be developed. Student projects include long and short written assignments, and various formats of oral presentation. This course is especially recommended for students planning to pursue graduate studies in Philosophy.</td>
<td>1.00 credits in Philosophy at the 3000 level</td>
<td>75% average in all Philosophy course attempts.</td>
</tr>
<tr>
<td>PHIL*4710</td>
<td>Directed Reading F, W (3-0) [0.50]</td>
<td></td>
<td>This course is intended as an intensive course of reading chosen by the student in consultation with the faculty member.</td>
<td>1.00 credits in Philosophy at the 3000-level</td>
<td>Instructor consent required</td>
</tr>
<tr>
<td>PHIL*4720</td>
<td>Directed Reading F, W (3-0) [0.50]</td>
<td></td>
<td>This course is intended as an intensive course of reading chosen by the student in consultation with the faculty member.</td>
<td>1.00 credits in Philosophy at the 3000-level</td>
<td>Instructor consent required</td>
</tr>
<tr>
<td>PHIL*4800</td>
<td>Honours Philosophy Research Paper I U (3-0) [0.50]</td>
<td></td>
<td>The preparation of a major research paper under the supervision of a faculty member. Normally open only to 7th semester honours philosophy students.</td>
<td>1.00 credits in Philosophy at the 3000 level</td>
<td>Instructor consent required</td>
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</table>
## Portuguese

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT*1100</td>
<td>Introductory Portuguese (Brazilian Culture) F (3-0) [0.50]</td>
<td>0.50</td>
<td>This course provides the basics of spoken and written Portuguese for students with no previous studies in the language. The learning context will be present-day Brazilian culture.</td>
<td></td>
<td>Instructor Consent Required.</td>
</tr>
<tr>
<td>PORT*1110</td>
<td>Intermediate Portuguese (Brazilian Culture) W (3-0) [0.50]</td>
<td>0.50</td>
<td>This course is a continuation of Introductory Portuguese with emphasis on oral work. The learning context will be present-day Brazilian culture.</td>
<td>PORT*1100</td>
<td>Instructor Consent Required.</td>
</tr>
</tbody>
</table>
**XII. Course Descriptions, Physics**

**PHYS*1000 An Introduction to Mechanics F (3-3) [0.50]**
This is a course for physical science students which develops the concepts of mechanics as applied to translational and rotational kinematics and dynamics, equilibrium of rigid bodies, oscillations, gravitation, special relativity, and fluid statics and dynamics. Normally this is part of the two-course unit PHYS*1000 and PHYS*1010.

Prerequisite(s): (1 of 4U Physics, Grade 12 Physics, PHYS*1020), 4U or Grade 12 Calculus

Restriction(s): IPS*1500, PHYS*1080

**PHYS*1010 Introductory Electricity and Magnetism W (3-3) [0.50]**
This is a course for physical science students on the phenomena of electromagnetism, waves and introductory quantum physics. Topics include electric charges and fields, electric potential, capacitance, magnetic fields, electric circuits, waves, electromagnetic waves, quantization of light and other aspects of introductory quantum physics. Normally this is part of the two-course unit PHYS*1000 and PHYS*1010.

Prerequisite(s): (1 of IPS*1500, MATH*1080, MATH*1200), (1 of 4U Physics, Grade 12 Physics, PHYS*1020)

Restriction(s): IPS*1510

**PHYS*1020 Introductory Physics F,W (3-3) [0.50]**
This course stresses the fundamental properties of particles and waves, designed for students without 4U Physics or equivalent. Topics include: the motion of particles, force, field, momentum, energy and associated conservation laws; basic interactions between particles; properties of waves. It is expected that students will have completed Grade 11 or 3U Physics and at least 1 4U mathematics credit. This course is intended only for students who require the equivalent of 4U Physics in order to proceed to PHYS*1500, PHYS*1510, PHYS*1000, PHYS*1010, PHYS*1070, PHYS*1080, PHYS*1130, PHYS*2040. Students may not take this course for credit if they have passed 4U or OAC Physics or equivalent. (Also offered through Distance Education format.)

Prerequisite(s): (1 of 4U Physics, OAC Physics, PHYS*1020), one 4U or OAC Mathematics course

Restriction(s): PHYS*1130

**PHYS*1070 Introductory Physics for Life Sciences F,W (3-3) [0.50]**
Physics of matter and energy at the macroscopic and microscopic levels, with special emphasis on topics of importance to the biological sciences. Topics include properties of waves, acoustics and hearing, optical systems and vision, quantum nature of radiation and its interaction with biomolecules, electricity, high energy radiation and radioactivity.

Prerequisite(s): (1 of 4U Physics, Grade 12 Physics, PHYS*1020), one 4U or Grade 12 Mathematics course

Restriction(s): IPS*1500, PHYS*1080

**PHYS*1130 Physics with Applications W (3-3) [0.50]**
This course is for engineering and environmental science students, and uses some calculus in analytic problem-solving. Topics include simple harmonic motion, waves, acoustics, optics, properties and absorption of electromagnetic radiation, blackbody radiation, solar spectrum and flux, electric field and potential, DC circuits, power transmission, nuclear processes, and radioactivity.

Prerequisite(s): (1 of IPS*1500, MATH*1080, MATH*1200), (1 of 4U Physics, Grade 12 Physics, PHYS*1020)

Restriction(s): PHYS*1070

**PHYS*1600 Contemporary Astronomy F (3-0) [0.50]**
This course is designed for non-science students. Emphasis will be on the interdisciplinary and contemporary aspects of astronomy with the object of providing a perspective of our place in the physical universe. Topics will include the solar system, stars and stellar evolution, pulsars, black holes, quasars and cosmology. Students are encouraged to suggest and participate in discussion on items of special interest. (Offered through Distance Education only.)

Restriction(s): Students with standing in any other 1000 level course credit in physics (except PHYS*1020, PHYS*1810) may not use this course for credit. B.Sc. students may not take this course for credit.

**PHYS*1810 Physics of Music F (3-0) [0.50]**
This course is designed for arts and social science students with an interest or background in music. The fundamentals of vibrations and waves will be introduced and applied to a study of archetypal instruments. The psychoacoustic basis of pitch and loudness will be discussed. Students who have standing in any 1000 level physics course, except PHYS*1020 or PHYS*1600, may enrol in this course only if they are completing an honours or general B.A. program in Music. In this case, permission of the instructor is required. (Also listed as MUSC*1090.) (Offered in even-numbered years.)

Equating(s): MUSC*1090

**PHYS*2030 Biophysics of Excitable Cells W (3-1) [0.50]**
An intermediate biophysics course with special emphasis on the physical properties of nerve cells and of biological transducers such as the ear and the eye.

Prerequisite(s): 1.00 credits in physics (excluding PHYS*1020, PHYS*1600, PHYS*1810)

**PHYS*2260 Quantum Physics W (3-0) [0.50]**
The course investigates and describes the properties of atoms, molecules and nuclei in terms of phenomena of quantum physics. Topics include wave properties of matter, particle properties of electromagnetic radiation, uncertainty principle, operators and eigenvalue equations, elementary angular momentum, spin and elementary quantum mechanics.

Prerequisite(s): (1 of IPS*1500, MATH*1080, MATH*1200, MATH*1210), (1 of IPS*1510, PHYS*1010, PHYS*1070), (MATH*2150 or MATH*2160)

Restriction(s): NANO*2100

**PHYS*2310 Mechanics I F (4-0) [0.50]**
This course continues building the foundation in mechanics begun in the first year and is intended for students proceeding to advanced studies in the physical sciences. Topics include analysis of experimental uncertainties (errors), one, two and three dimensional motion, damped and forced harmonic oscillator, gravitation and orbital motion.

Prerequisite(s): (1 of IPS*1510, MATH*1210, MATH*2080), (1 of IPS*1500, PHYS*1000, PHYS*1080)

Restriction(s): PHYS*2440

**PHYS*2320 Mechanics II W (4-0) [0.50]**
This course is a continuation of PHYS*2310. Topics include special relativity, noninertial reference frames, dynamics of systems of particles, and rigid body dynamics.

Prerequisite(s): PHYS*2310

Restriction(s): PHYS*2450

**PHYS*2330 Electricity and Magnetism I F (4-0) [0.50]**
This course continues building the foundation in electricity and magnetism begun in the first year and is intended for students proceeding to advanced studies in the physical sciences. Topics include vector calculus, electric fields, potential, electric work and energy, Gauss’s Law, Poisson’s and Laplace’s equations, capacitors, D.C. circuits, transients and dielectric materials.

Prerequisite(s): IPS*1510 or (MATH*1210 or MATH*2080), (1 of PHYS*1010, PHYS*1070, PHYS*1130)

Co-requisite(s): PHYS*2310

Restriction(s): PHYS*2460

**PHYS*2340 Electricity and Magnetism II W (4-0) [0.50]**
This course is a continuation of PHYS*2330. Topics include magnetic forces and fields, the Biot-Savart equation, Ampère’s Law, magnetic induction, LRC transients, A.C. circuits and magnetic materials.

Prerequisite(s): PHYS*2330

Restriction(s): PHYS*2470

**PHYS*2440 Mechanics I F (3-3) [0.75]**
This course and the following one, PHYS*2450, continue building the foundation in mechanics begun in the first year. These courses are intended for students proceeding to advanced studies in the physical sciences. Topics include analysis of experimental uncertainties (errors), one, two and three dimensional motion, damped and forced harmonic oscillator, gravitation and orbital motion. The laboratory work requires a formal treatment of error analysis, as well as computer programming for data analysis.

Prerequisite(s): (1 of IPS*1510, MATH*1210, MATH*2080), (1 of IPS*1500, PHYS*1000, PHYS*1080)

**PHYS*2450 Mechanics II W (3-3) [0.75]**
This course is a continuation of PHYS*2440. Topics include special relativity, noninertial reference frames, dynamics of systems of particles, and rigid body dynamics.

Prerequisite(s): PHYS*2440
### XII. Course Descriptions, Physics

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>PHYS*2460</td>
<td>Electricity and Magnetism I</td>
<td>(3-3) [0.50]</td>
<td>This course covers electricity and magnetism, including circuits, magnetic fields, and the Biot-Savart law. Prerequisite(s): PHYS<em>1010, PHYS</em>1070, (MATH<em>1210 or MATH</em>2080). Co-requisite(s): PHYS*2440.</td>
</tr>
<tr>
<td>PHYS*2470</td>
<td>Electricity and Magnetism II</td>
<td>(3-3) [0.50]</td>
<td>This course continues with the topics of electricity and magnetism, including alternating current, magnetic fields, and the Lorentz force. Prerequisite(s): PHYS*2460.</td>
</tr>
<tr>
<td>PHYS*2600</td>
<td>General Astronomy</td>
<td>(3-2) [0.50]</td>
<td>This course covers fundamental concepts in astronomy, including celestial mechanics, stellar systems, and the origin of the universe. Prerequisite(s): 0.50 credits in physics at the 1000 level (excluding PHYS<em>1600, PHYS</em>1810), 0.50 credit in mathematics at the 1000 level.</td>
</tr>
<tr>
<td>PHYS*3080</td>
<td>Energy W</td>
<td>(3-0) [0.50]</td>
<td>This course explores the principles of energy conservation and the applications of energy in various systems. Topics include thermodynamics and the law of conservation of energy. Prerequisite(s): PHYS<em>1000 or PHYS</em>1080, (1 of MATH<em>1000, MATH</em>1080, MATH<em>1200), (1 of IPS</em>1510, PHYS<em>1010, PHYS</em>1070, PHYS*1130).</td>
</tr>
<tr>
<td>PHYS*3100</td>
<td>Electronics F</td>
<td>(3-0) [0.50]</td>
<td>This course introduces the fundamentals of electronics, including circuits, signal processing, and digital systems. Prerequisite(s): PHYS<em>2460 or PHYS</em>2470.</td>
</tr>
<tr>
<td>PHYS*3170</td>
<td>Radioactivity and Radiation Interactions</td>
<td>F (3-0) [0.50]</td>
<td>This course explores the principles of radioactivity and radiation interactions, including nuclear physics and radiation protection. Prerequisite(s): MATH<em>2200, MATH</em>3110, PHYS*2260.</td>
</tr>
<tr>
<td>PHYS*3220</td>
<td>Waves and Optics</td>
<td>(3-0) [0.50]</td>
<td>This course covers the principles of wave theory and optics, including light waves, interferometry, and polarization. Prerequisite(s): PHYS<em>2310 or PHYS</em>2440.</td>
</tr>
<tr>
<td>PHYS*3230</td>
<td>Quantum Mechanics I</td>
<td>(3-0) [0.50]</td>
<td>This course introduces the principles of quantum mechanics, including wave packets and particle motion. Prerequisite(s): (CHEM<em>2070 or PHYS</em>2260), MATH<em>2160, (MATH</em>2170 or MATH<em>2270), (PHYS</em>2340 or PHYS*2470).</td>
</tr>
<tr>
<td>PHYS*3240</td>
<td>Statistical Physics I</td>
<td>(3-0) [0.50]</td>
<td>This course covers statistical physics, including thermodynamics and statistical mechanics of equilibrium phenomena. Prerequisite(s): (1 of PHYS<em>2260, PHYS</em>2310, PHYS<em>2440) Co-requisite(s): MATH</em>2200.</td>
</tr>
<tr>
<td>PHYS*3400</td>
<td>Advanced Mechanics</td>
<td>(3-0) [0.50]</td>
<td>This course covers Lagrangian and Hamiltonian mechanics, including the transition to quantum mechanics and introduction to non-linear dynamics. Prerequisite(s): (MATH<em>2170 or MATH</em>2270), (PHYS<em>2320 or PHYS</em>2450).</td>
</tr>
<tr>
<td>PHYS*3510</td>
<td>Intermediate Laboratory W</td>
<td>(0-6) [0.50]</td>
<td>This course is an introduction to laboratory techniques and methods for the physics laboratory. Prerequisite(s): [PHYS<em>2440 or (NANO</em>2100, PHYS<em>2310)], PHYS</em>3100.</td>
</tr>
<tr>
<td>PHYS*4001</td>
<td>Research in Physics</td>
<td>F (0-6) [0.50]</td>
<td>This course provides an opportunity for independent research in physics. Prerequisite(s): PHYS<em>3510. Restriction(s): PHYS</em>4510; Instructor consent required.</td>
</tr>
<tr>
<td>PHYS*4002</td>
<td>Research in Physics</td>
<td>W (0-6) [0.50]</td>
<td>This course is a continuation of PHYS<em>4001. Prerequisite(s): PHYS</em>4001. Restriction(s): PHYS*4510; Instructor consent required.</td>
</tr>
<tr>
<td>PHYS*4040</td>
<td>Quantum Mechanics II</td>
<td>(3-0) [0.50]</td>
<td>This course covers advanced topics in quantum mechanics, including perturbation theory and applications to atomic and molecular structure. Prerequisite(s): PHYS<em>3170. Restriction(s): PHYS</em>4560.</td>
</tr>
<tr>
<td>PHYS*4120</td>
<td>Atomic and Molecular Physics</td>
<td>(3-0) [0.50]</td>
<td>This course covers the application of quantum theory to atomic and molecular structure, including perturbation theory and applications to atomic and molecular physics. Prerequisite(s): PHYS*3230.</td>
</tr>
<tr>
<td>PHYS*4130</td>
<td>Subatomic Physics</td>
<td>(3-0) [0.50]</td>
<td>This course covers the field of subatomic physics, including quark models, strong and weak interactions, and conservation laws. Prerequisite(s): PHYS*3220.</td>
</tr>
<tr>
<td>PHYS*4140</td>
<td>Solid State Physics</td>
<td>(3-0) [0.50]</td>
<td>This course covers the principles of solid state physics, including the properties of solids and the behavior of energy bands. Prerequisite(s): PHYS<em>3230, PHYS</em>3240 Recommended: PHYS<em>4240 Co-requisite(s): PHYS</em>4040 (if not taken as a pre-requisite).</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>PHYS*4180</td>
<td>Advanced Electromagnetic Theory F</td>
<td>(3-0)</td>
<td>This course covers Maxwell's equation, Lorentz-force law, conservation of charge, and conservation of energy (Poynting's theorem). In addition, the course will discuss potentials, gauge transformations, wave equations, and multipole expansions as well as Green's functions for the Poisson and wave equations. Additional topics include electrostatics and magnetostatics (including boundary-value problems), motion of charged particles in electromagnetic fields, and propagation and generation of electromagnetic waves. (Offered in even-numbered years.)</td>
</tr>
<tr>
<td>PHYS*4240</td>
<td>Statistical Physics II F</td>
<td>(3-0)</td>
<td>A continuation of PHYS*3240 including a discussion of the grand canonical distribution, quantum statistics, and transport theory.</td>
</tr>
<tr>
<td>PHYS*4300</td>
<td>Inquiry in Physics W</td>
<td>(0-6)</td>
<td>In this course, students will undertake independent study of the scientific literature and learn how to communicate scientific research effectively. Students will prepare seminars and written reports on approved topics drawn from current research initiatives in physics.</td>
</tr>
<tr>
<td>PHYS*4500</td>
<td>Advanced Physics Laboratory F</td>
<td>(0-6)</td>
<td>This is a modular course for students in any physics-related major in which techniques of nuclear, solid state and molecular physics will be studied.</td>
</tr>
<tr>
<td>PHYS*4540</td>
<td>Molecular Biophysics W</td>
<td>(3-0)</td>
<td>Physical methods of determining macromolecular structure: energetics, intramolecular and intermolecular forces, with applications to lamellar structures, information storage, DNA and RNA, recognition and rejection of foreign molecules.</td>
</tr>
<tr>
<td>PHYS*4560</td>
<td>Biophysical Methods F</td>
<td>(3-0)</td>
<td>This course provides an introduction to physical techniques to determine the structure of macromolecules and macromolecular structures of biological interest. The techniques include: differential calorimetry, X-ray and neutron scattering, electron microscopy, Raman and infrared spectroscopy, nuclear magnetic resonance, and electron spin resonance. Applications of these techniques in the study of biological membranes will be emphasized. (Last offering - Fall 2015)</td>
</tr>
<tr>
<td>PHYS*4910</td>
<td>Advanced Topics in Physics I U</td>
<td>(3-0)</td>
<td>The content of this course is determined by the interests of the students. Possible topics include fluid mechanics, theory of elastic solids, general relativity, astrophysics, and chaos. This course is not offered every year.</td>
</tr>
<tr>
<td>PHYS*4920</td>
<td>Advanced Topics in Physics II U</td>
<td>(3-0)</td>
<td>The content of this course is determined by the interests of the students. Possible topics include fluid mechanics, theory of elastic solids, general relativity, astrophysics, and chaos. This course is not offered every year.</td>
</tr>
<tr>
<td>PHYS*4930</td>
<td>Advanced Topics in Physics III U</td>
<td>(3-0)</td>
<td>The content of this course is determined by the interests of the students. Possible topics include fluid mechanics, theory of elastic solids, general relativity, astrophysics, and chaos. This course is not offered every year.</td>
</tr>
</tbody>
</table>
Physiology

Department of Biomedical Sciences

For course listings and descriptions see Biomedical Sciences.

Additional course listings may be found in the course descriptions for Veterinary Medicine and Human Kinetics.

Students wishing to study Physiology can complete a 3000 level course or course sequence in: ZOO*3200; or ZOO*3210; or HK*3940; or BIOM*3100; and either BIOM*3110 or BIOM*3120. In addition, students can select specialized courses at the 4000 level (preferably at least 2 with labs) offered by the:

Department of Biomedical Sciences:

- BIOM*4020 [0.50] Physiology of Digestion
- BIOM*4030 [0.50] Endocrine Physiology
- BIOM*4041/2 [1.00] Mammalian Reproductive Biology
- BIOM*4050 [0.50] Biomedical Aspects of Aging

School of Human Biology:

- HK*4320 [0.50] Work Physiology
- HK*4460 [0.50] Regulation of Human Metabolism
- HK*4530 [0.50] Human Cardiovascular Physiology

Department of Integrative Biology:

- ZOO*4170 [0.50] Experimental Comparative Animal Physiology
- ZOO*4390 [0.50] Environmental Physiology
- ZOO*4470 [0.50] Comparative Endocrinology
# Plant Biology

**School of Environmental Sciences**

**Department of Plant Agriculture**

### PBIO*3110 Crop Physiology F (3-3) [0.50]

This course examines the physiological basis of crop yield determination, with emphasis on phenomena that express themselves at the whole canopy (rather than single plant) level of organization. It covers canopy scale measurements of crop growth, development, and solar radiation capture; photosynthesis, beginning at the level of biochemistry and working up to the whole canopy scale; how photoassimilates are used in the processes of respiration, growth and yield formation; and crop-environment interactions, including water stress, nutrient uptake and utilization, and light quality effects on photomorphogenesis. Department of Plant Agriculture.

**Prerequisite(s):** 1 of BIOL*1040, BIOL*1050, BIOL*1070, BIOL*1090

### PBIO*3750 Plant Tissue Culture F (2-3) [0.50]

An examination and discussion of the principles, protocols and utilization of plant cell tissue culture systems. In vitro propagation and regeneration, mutagenesis and selection, secondary metabolite elicitation and cell transformation techniques including protoplast fusion, direct DNA uptake and plant bacterial co-cultivation will be emphasized. Department of Plant Agriculture.

**Prerequisite(s):** AGR*2451/2 or BOT*2100

### PBIO*4000 Molecular and Cellular Aspects of Plant-Microbe Interactions F (3-0) [0.50]

This course examines molecular and cellular aspects of the interaction between plants and microorganisms such as mycorrhizae, pathogenic fungi, Agrobacterium, pathogenic bacteria, and plant viruses. Topics include microbial virulence, signaling, gene expression, and disease resistance in plants. School of Environmental Sciences.

**Prerequisite(s):** 1 of BOT*2100, MICR*2030, (BIOL*1070, BIOL*1090, MBG*2040)

### PBIO*4100 Soil Plant Relationships W (3-0) [0.50]

Root growth as affected by soil properties; soil plant water relations; soil aeration; absorption, translocation and function of nutrients in plants; ion transport to roots; rhizosphere effects; application of concepts to crop production. School of Environmental Sciences.

**Prerequisite(s):** 1 of AGR*2301/2, AGR*2320, BOT*2100, BOT*2300, (ENVS*2060 or SOIL*2010), SOIL*2320

### PBIO*4150 Molecular and Cellular Aspects of Plant Development W (3-0) [0.50]

An examination of the molecular and cellular processes that underlie cellular differentiation and organ formation in plants. The roles of homeotic genes, gene regulation, cell polarity, morphogens and environmental effects in development will be discussed. Subjects will be introduced by a lecture and examined in detail in discussions of pertinent research papers. Department of Plant Agriculture. (Offered in even-numbered years.)

**Prerequisite(s):** BOT*2100

### PBIO*4530 Environmental Pollution Stresses on Plants W (3-0) [0.50]

This course analyzes the environmental pollution effects on physiological and ecological processes of plants, in both managed and unmanaged ecosystems. Pollutants under study include contaminants of air (such as ozone, sulphur dioxide and UV-B radiation) and soil (such as metals and organic xenobiotics). The format includes both lecture and presentation/discussion of current and historical peer-reviewed literature. School of Environmental Sciences.

**Prerequisite(s):** 2 of BIOL*2060, (BIOL*2210 or MCB*2210), BOT*2030, BOT*2050, BOT*2100, CROP*2110, (ENVB*2030 or ENVS*2330), (ENVB*2040 or ENVS*2040), ENV&M*1100

### PBIO*4750 Genetic Engineering of Plants W (3-3) [0.50]

This course provides an examination and discussion of the principles, protocols and applications of molecular biology and transformation technology to the genetic improvements of plants. Department of Plant Agriculture.

**Prerequisite(s):** MBG*2020 or MBG*2040
XII. Course Descriptions, Political Science

Political Science

Department of Political Science

For courses without semester designations, please check with the department. Advance schedules are available in the department.

The department works in cooperation with the department of Political Science at the University of Waterloo to offer courses via the video link classroom. These courses are identified by the designation LINK in their course description. Further information can be obtained from the department.

POL*S*1000, POL*S*1300

POL*S*2080 or POL*S*2100

POL*S*2080 or POL*S*2100

POL*S*3021

1 of POL*S*1400, POL*S*2250, POL*S*2300

POL*S*1150 or POL*S*1400

Theoretical and Ideological Perspectives of Politics

This course explores the fundamental patterns of international politics, focusing especially on the major issues and contemporary events at the root of international conflict. As well, the reality of globalization and interdependence is assessed in terms of the alternative patterns of international cooperation in the contemporary world. (Also offered through Distance Education format.)

Restriction(s): POL*S*1000, POL*S*1300

POL*S*1400 Issues in Canadian Politics F,W (3-1) [0.50]

This is the recommended introductory course for students intending to pursue a specialization in Political Science. An introduction to the basic concepts of politics, such as liberty, equality, social justice, constitutionalism, sovereignty, federalism, parliamentary versus presidential government. The course will emphasize the meaning and use of these terms within Canada in the context of other political systems.

Restriction(s): POL*S*1000, POL*S*1300

POL*S*1500 World Politics F (3-0) [0.50]

An examination of the fundamental patterns of international politics, focusing especially on the major issues and contemporary events at the root of international conflict. As well, the reality of globalization and interdependence is assessed in terms of the alternative patterns of international cooperation in the contemporary world. (Also offered through Distance Education format.)

POL*S*2000 Political Theory F (3-0) [0.50]

A study of the philosophic and ideological developments which have led to the emergence of the modern state and contemporary politics.

POL*S*2080 Development and Underdevelopment F (3-0) [0.50]

An examination of the politics of development, distribution and conflict in Africa, Asia, the Middle East and the Americas from a comparative and international perspective.

POL*S*2100 Comparative Politics W (3-0) [0.50]

An examination of the evolution, purposes, structures and functions of the state in relation to the economy and civil society.

POL*S*2150 Gender and Politics W (3-0) [0.50]

This course introduces students to competing approaches to gender and politics. Students will examine the interrelationship of gender, politics and the state, focusing on its implications for political mobilization, representation and participation, public policy, global gender issues in international relations, and cultural and regional differences in gender politics. The course provides the student with the conceptual and analytical tools for upper-year courses on politics in general and on gender, sexuality and politics in particular.

POL*S*2200 International Relations F (3-0) [0.50]

An introduction to basic theories and concepts in the study of international relations, including an analysis of power, national interest, security, survival, nationalism, sovereignty, decision-making, interdependence, integration, and transnationalism.

POL*S*2250 Public Administration and Governance W (3-0) [0.50]

The course explores, from both practical and theoretical perspectives, planning and implementation of programs and services through government departments and agencies and “alternative” processes and structures, sometimes involving non-governmental actors. The course critically evaluates the changing role of bureaucracy; financial and human resource management; and the evolving concepts of responsibility and accountability. (Also offered through Distance Education format.)

Prerequisite(s): POL*S*1150 or POL*S*1400

POL*S*2300 Canadian Government and Politics F,W (3-0) [0.50]

This course explores the core institutions of Canadian government, including parliamentary government, federalism, the Charter of Rights and Freedoms and electoral systems. How these institutions shape and are shaped by political parties and social forces, as well as current issues like Quebec nationalism, identity politics and aboriginal governance, are covered. (Also available through Distance Education format.)

POL*S*3000 Politics of Africa U (3-0) [0.50]

Africa in the 20th Century has been the scene of rapid political and economic change. This course analyzes African politics in the light of contemporary problems of development and modernization.

Prerequisite(s): POL*S*2080 or POL*S*2100

POL*S*3050 Canadian Political Parties, Elections and Pressure Groups W (3-0) [0.50]

The course emphasizes political process rather than governmental structures. Topics to be explored include the role of political parties, pressure groups, the electoral system and voting and their impact on the nature of Canada as a democratic state.

Prerequisite(s): POL*S*1400 or POL*S*2300

POL*S*3060 Politics of the Middle East and North Africa U (3-0) [0.50]

Students will examine the political dynamics of selected states and societies (e.g. Egypt, Syria, Saudi Arabia, Iran, Israel, Jordan and Algeria) in the Middle East and North Africa (MENA). Issues to be covered: the impact of early Middle Eastern/North African history upon today's politics; class structures in the MENA countries and their impact on politics; the rise of Arab nationalism; Zionism; the politics of oil; the status of women; the political impact of economic restructuring; Islamic movements; state-building; and political liberalization and democratization in the Middle East and North Africa.

Prerequisite(s): POL*S*2080 or POL*S*2100

POL*S*3080 Politics of Latin America U (3-0) [0.50]

An exploration of Latin American politics from a multidimensional perspective. It analyzes the interaction among contemporary political structures, ideologies and processes in the context of socio-economic change.

Prerequisite(s): POL*S*2080 or POL*S*2100

POL*S*3130 Law, Politics and Judicial Process U (3-0) [0.50]

This course emphasizes the study of the judicial system as a branch of government and highlights the interaction between the judiciary, law, the political process and public policy. Issues such as judicial selection and Charter of Rights decisions by courts will be explored. Comparisons with the judicial process in other countries will supplement the focus on the Canadian judicial process.

Prerequisite(s): 1 of POL*S*1400, POL*S*2250, POL*S*2300

POL*S*3160 Women and Politics in the Third World U (3-0) [0.50]

The purpose of this course is twofold: 1) to examine Western analyses and assumptions concerning women and politics in the Third World; and 2) to examine how women's activities in the Third World challenge our definitions and understanding of power, political participation, and empowerment.

Prerequisite(s): POL*S*2080 or POL*S*2100

POL*S*3180 Research Methods I: Political Inquiry and Methods F (2-1) [0.50]

Students will be introduced to some of the major paradigms of political science research that shape inquiry into political and social phenomena. Students will learn how to: define research problems and construct questions for political inquiry; develop theory to explain, predict or interpret the political world; and formulate research designs. A variety of quantitative and qualitative methods will be explored.

Prerequisite(s): 5.00 credits including (2 of POL*S*2080, POL*S*2100, POL*S*2200, POL*S*2250)

POL*S*3210 The Constitution and Canadian Federalism W (3-0) [0.50]

Canadians' constitutional and federal system lies at the heart of the ongoing crisis facing the Canadian Confederation. This course examines the major features of our constitutional development, how the current system of intergovernmental relations has evolved, and the challenges posed by Canada's cultural diversity, pressures for decentralisation, and the maintenance of national sovereignty.

Prerequisite(s): POL*S*2300

POL*S*3230 Modern Political Thought W (3-0) [0.50]

This course explores the impact of modern science and technology, and its impact on the western tradition of justice from the seventeenth century to the twentieth century. It will explore this theme in writers such as Thomas Hobbes, Johnson Swift, J-J Rousseau, Edmund Burke, Friedrich Nietzsche and George Grant. The exact selection of thinkers will vary from year to year and students are advised to check the course outline.

Prerequisite(s): POL*S*2000 or POL*S*2380

Restriction(s): POL*S*3021

POL*S*3250 Public Policy: Challenges and Prospects F (3-0) [0.50]

This course covers the dominant theories that explain the origins and character of public policy in Canada, and other countries. The focus will be on both governmental and nongovernmental actors.

Prerequisite(s): POL*S*1400 or POL*S*2250
POL*3270 Local Government in Ontario U (3-0) [0.50]
Municipal governments are major spenders of public funds in Canada, and are also the level of government closest to the people. In this course, students will examine the major problems confronting urban government in Ontario.
Prerequisite(s): 7.50 credits

POL*3300 Governing Criminal Justice U (3-0) [0.50]
The course provides an overview of the policy process and outcomes of the Canadian criminal justice system. Particular emphasis is placed on examining, using various public policy and public management perspectives, the practices and interactions of government agencies within the system, such as police agencies and boards, departments of Justice, Solicitor-General, corrections and parole agencies, courts and the legal profession.
Prerequisite(s): POLS*2250 or POLS*2300
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*3320 Politics of Aid & Development F (3-0) [0.50]
This course examines the motivations and mechanisms by which industrialized states have designed and implemented foreign aid programs and policy, primarily since the end of the Second World War. Particular emphasis will be placed on the role of multilateral, bilateral and nongovernmental organizations in the delivery of development assistance and humanitarian relief.
Prerequisite(s): POLS*2080

POL*3370 Environmental Politics and Governance S,F (3-0) [0.50]
This course examines environmental politics and governance in Canada as well as in comparative and international contexts. This is accomplished by surveying how various political, legal, administrative, and private-public actors and processes influence the development and implementation of environmental policy. (Also offered through Distance Education format.)
Prerequisite(s): 7.50 credits

POL*3410 U.S. Politics and Government U (3-0) [0.50]
This course involves a treatment of the basic principles and institutions of national government and politics in the United States as well as the making and execution of public policy at the national and state levels.
Prerequisite(s): POLS*2100 or POLS*2300

POL*3440 Corruption, Scandal and Political Ethics U (3-0) [0.50]
This course will introduce students to the phenomenon of political corruption and the study of its incidence. Attention will be paid to historical examples, contemporary scandals, and analytical articles, dealing with the nature, causes and effects, and proposed cures of political corruption, and the ethical dilemmas inherent in political life.
Prerequisite(s): 5.00 credits

POL*3450 European Governments and Politics U (3-0) [0.50]
Europe has forged a new form of political organization, the European Union, in addition to its variety of national democratic forms. This course offers a comparative examination of selected national governments, as well as an exploration of this new supra-national organization.
Prerequisite(s): POLS*2100 or POLS*2200

POL*3470 Business-Government Relations in Canada U (3-0) [0.50]
The public and private sectors in Canada have become more and more interrelated in recent years as evidenced by tax and expenditure policies, the role of regulation and public enterprise, and the increasing emphasis on consultation and co-ordination. This course examines the evolving relationship between governments and the private sector in Canada, including business (both large and small), organized labour, specific sectors such as agriculture and consumer affairs and voluntary organizations.
Prerequisite(s): POLS*1400 or POLS*2250

POL*3490 Conflict and Conflict Resolution F (3-0) [0.50]
This course will examine the growing body of literature which considers violent conflict and its management. Materials are organized to reflect the trajectory of many contemporary conflicts: from explanations for violence, to identifying conditions and means to resolve conflict and, finally, to post-conflict governance.
Prerequisite(s): POLS*1500 or POLS*2200
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*3650 Research Methods II: Quantitative Methods W (2-1) [0.50]
This course examines quantitative research methods used in political science; primarily sampling and surveying techniques, in combination with elementary statistical analysis. Students learn how to apply basic descriptive and inferential statistical procedures to research political problems and test hypotheses. In lab, students will acquire the skills to perform data analysis
Prerequisite(s): POLS*3180 or SOAN*2120
Restriction(s): Registration in Criminal Justice & Public Policy or Political Science (major, minor or area of concentration) or International Development (major only).

POL*3670 Comparative Public Policy and Administration W (3-0) [0.50]
This course examines the role of the bureaucracy in national development in various economic, social and political environments. The focus of the course is the interplay between bureaucracy, democracy and development in a comparative perspective.
Prerequisite(s): 1 of IDEV*2010, IDEV*2500, POLS*2080, POLS*2100, POLS*2250

POL*3710 Politics and Sexuality U (3-0) [0.50]
Sexuality is treated as a subject for political theory from a number of critical and interdisciplinary perspectives. The course examines the relationship between sexuality and politics by analyzing the dynamics of power in the context of sexuality.
Prerequisite(s): POLS*2000 or PHIL*2060

POL*3790 The Political Economy of International Relations W (3-0) [0.50]
This course examines major features of the contemporary international political economy, treating major theories and concepts within this approach to international relations (hegemony, globalization, interdependence, world systems theory, etc.) and focusing on the operation of key international institutions and regimes (i.e. communications, trade and transport policy).
Prerequisite(s): 1 of IDEV*2010, IDEV*2500, POLS*2080, POLS*2100, POLS*2200

POL*3850 Experiential Learning in Political Science U (3-0) [0.50]
This course allows students to reflect upon their involvement in some form of politically related activity, including simulations, volunteer programs, or internship work with government or non-government organizations. The student must find a faculty member from the Department of Political Science willing to act as a supervisor for the course. See the Political Science website for the learning contract and other requirements that must be completed in advance of registering for this course.
Prerequisite(s): Minimum of 10.00 credits, 2.00 of which must be in Political Science.
Restriction(s): Approval of the experience and evaluation criteria by the Undergraduate Committee of the Department of Political Science; Instructor consent required.

POL*3890 Government and Politics of India W (3-0) [0.50]
The course is designed to provide a survey of the history, society, culture, politics, government, bureaucracy and foreign relations of India.
Prerequisite(s): 1 of POLS*2080, POLS*2100, POLS*2200

POL*3920 Modern China F (3-0) [0.50]
This course is a detailed study of the political history of modern China and its current politics. The main objective is to assess the extent to which the Chinese Communist Party has fulfilled its mandate, which is to build a sovereign and united China as well as to modernize the country within a socialist framework.
Prerequisite(s): 1 of POLS*2080, POLS*2100, POLS*2200

POL*3960 Selected Topics in Political Science S,F,W (3-0) [0.50]
Readings and research in selected areas of the discipline not covered by regular course offerings. Students present a proposal and seek approval from a member of the department in the semester previous to enrolment in this course. The method of course presentation, emphasis, and evaluation are at the discretion of the instructor.
Prerequisite(s): 1.50 credits at the 3000 level in Political Science or equivalent
Restriction(s): Instructor consent required.

POL*4030 Contemporary Political Theory U (3-0) [0.50]
This course provides an analysis of selected theories and political issues discussed by prominent 20th-Century thinkers. These contemporary works will be examined as part of the long tradition of political discourse dating back to the classical period.
Prerequisite(s): POLS*2000 and at least 1.00 credits at the 3000 level in the Political Thought stream.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.
POL*S4050 Advanced Topics in Law and Politics U (3-0) [0.50]
This course explores advanced topics in law and politics depending on the interests of the instructor. Potential topics include investigating the law and politics of social change or analyzing debates about the political power of courts in Canada or in comparative perspectives.
Prerequisite(s): 1.00 credits at the 3000-level in the Law, Policy and Governance stream or the Comparative Politics stream. POL*S3130 recommended.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4100 Women, Justice and Public Policy U (3-0) [0.50]
This course will use gender-based analysis in examining a series of justice and public policy issues affecting the lives of women, including equality rights, pay and employment equity, domestic violence, sexual violence, family policy, health care policy, and pornography. How do current policies that developed out of neoliberalism influence the lives of women in different ways than men? How can/should they be changed to recognize the different life experiences of women as distinguished from men? The primary focus of the topics covered in this course will be Canadian, although the experiences in other countries will be covered, particularly as it relates to "best practices," where appropriate.
Prerequisite(s): 2 of POL*S2250, POL*S2300, POL*S2250 and 1.00 credits in the Public Policy, Governance and Law or Canadian Politics.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4140 Conceptions of Canada W (3-0) [0.50]
This course will explore evolving conceptions of Canadian identity and nationalism through consideration of political culture, institutions and constitutional arrangements. Possible topics include: multiculturalism, Aboriginal identity and community, Quebec nationalism, social citizenship, rights and representation, as well as Canada’s global role and significance.
Prerequisite(s): POL*S2300 and 1.00 credits at the 3000 level in the Canadian Politics stream.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4160 Multi-Level Governance in Canada U (3-0) [0.50]
This course considers the evolving relationship among levels of government in Canada. The growth of cities, the growth of policy responsibilities of provinces, the influence of international organizations, and the development of First Nations government in Canada all challenge the conventional study of federal-provincial relations in Canada. From year to year, this course examines one or several of these contemporary dynamics.
Prerequisite(s): POL*S2300 and 1.00 credits at the 3000 level in the Canadian Politics stream.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4200 International Political Economy U (3-0) [0.50]
The course relies on theoretical approaches in IPE to examine relationships between politics and economics across national and regional levels. The evolution of the global political economy and its governance structures is explored, as well as contemporary debates about globalization and state and non-state actors’ responses. Issue-areas may include: money and power, technology, trade, development and the environment.
Prerequisite(s): (1 of POL*S2080, POL*S2100, POL*S2200); and at least 1.00 credits at the 3000 level in the International Relations and Global Studies stream.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4250 Topics in Public Management W (3-0) [0.50]
This course will examine various topics related to governance, such as public management reform, public sector leadership, third sector organizations or budgeting and human resources.
Prerequisite(s): POL*S2250 and 1.00 credits at the 3000 level in the Public Policy, Governance and Law stream or the Canadian Politics stream.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4260 Topics in Public Policy U (3-0) [0.50]
This course will examine various public policy issues such as social policy or health care policy in a Canadian or comparative context.
Prerequisite(s): (2 of POL*S2250, POL*S2300, POL*S3250). 1.00 credits in the Public Policy, Governance and Law stream or the Canadian Politics stream.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4300 Human Rights, Ethics, and Development W (3-0) [0.50]
This course is intended to address the ethical issues that arise from development processes and studies by focusing on human rights. The subject is explored from a range of philosophical, religious, and cultural perspectives, including both Western and non-Western. Related themes include global and social justice; nationalism, cosmopolitanism, and multiculturalism; human rights; and development.
Prerequisite(s): (POL*S2000 and 1.00 credits in the Political Thought stream) or (POL*S2000 and 0.50 credits in Political Thought stream and 0.50 credits in the Comparative Politics stream.)
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4340 Nationalism, State-building and Identity U (3-0) [0.50]
The course examines the role of nationalism in contemporary politics. Nationalism as such is understood as a major political force in state-building. Its impact on both global and national politics is assessed in relation to other forms of identity-based politics.
Prerequisite(s): (1 of POL*S2000, POL*S2100, POL*S2200), (1.00 credits at the 3000 level in the Comparative Politics stream or 1.00 credits at the 3000 level in the International Relations and Global Studies stream).

POL*S4710 Topics in Comparative Politics U (3-0) [0.50]
This course considers theories and problems in comparative politics and government in developing and industrialized countries. The geographical and theoretical focus of the course will reflect the interests of the instructor.
Prerequisite(s): (POL*S2080 or POL*S2100) and 1.00 credits at the 3000 level in the Comparative Politics stream.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4720 Topics in International Relations U (3-0) [0.50]
This course considers theories and problems in the field of International Relations. The theoretical and/or geographical focus of the course will reflect the interests of the instructor.
Prerequisite(s): POL*S2200 and 1.00 credits at the 3000 level in the International Relations and Global Studies stream.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4740 Advanced Topics in Rights and Liberties F (3-0) [0.50]
The course explores rights and liberties from various perspectives depending on the interests of the instructor. Potential topics include exploring the political, social, and legal factors and theories that explain the development of rights and liberties; rights and liberties in a comparative and international context; or the philosophical and policy debates surrounding rights and liberties.
Prerequisite(s): (POL*S3130 or POL*S3210) and at least 1.00 credits at the 3000 level in the Public Policy, Governance and Law stream.
Restriction(s): This is a Priority Access course. Enrolment may be restricted to particular programs or specializations or semester levels during certain periods. Please see the departmental website for more information.

POL*S4910 Selected Topics in Political Science II S,F,W (3-0) [0.50]
This course provides for independent reading and research in selected areas of the discipline not covered by regular course offerings. Prior to enrollment in the course, approval must be obtained from a member of the department willing to supervise the research. Students should approach potential supervisors with a proposal for readings and research, which may include reflection and expansion on a subject matter addressed in previous course assignments.
Prerequisite(s): 1.50 credits at the 3000 level in Political Science or equivalent
Restriction(s): Instructor consent required.
### POLS*4930 Selected Topics in Political Science II S,F,W (3-0) [0.50]

This course provides for independent reading and research in selected areas of the discipline not covered by regular course offerings. Prior to enrollment in the course, approval must be obtained from a member of the department willing to supervise the research. Students should approach potential supervisors with a proposal for readings and research, which may include reflection and expansion on a subject matter addressed in previous course assignments.

**Prerequisite(s):** 1.50 credits at the 3000 level in Political Science or equivalent

**Restriction(s):** Instructor consent required.

### POLS*4970 Honours Political Science Research I S,F,W (3-0) [0.50]

This is Part I of the Honours Essay. Students complete the necessary reading and research for their Honours Essay under the supervision of a department advisor. A research proposal is expected by the end of the semester. Political science majors who wish to pursue an honours thesis must register in this course in their 7th semester. Student selection of an approved subject area and instructor must be completed in the semester previous to enrolment in this course.

**Prerequisite(s):** 70% average in all POLS courses. Recommendation: Students with less than a 75% average are advised not to take this course.

**Restriction(s):** Instructor consent required.

### POLS*4980 Honours Political Science Research II S,F,W (3-0) [0.50]

This is Part II of the Honours Essay. Students organize and write their essays under the supervision of their advisor. Major honours political science students must register in this course in their 8th semester.

**Prerequisite(s):** POLS*4970

**Restriction(s):** Instructor consent required.
### Population Medicine

#### POPM*3240 Epidemiology F (3-0) [0.50]

The course examines the basic concepts of health and disease in populations. Methods used in descriptive and analytic epidemiological studies, including the design, analysis and interpretation of results for observational studies and field trials are presented.

**Prerequisite(s):** (1 of BIOL*1040, BIOL*1080, BIOL*1090), STAT*2040

**Restriction(s):** This is a Priority Access Course and some restrictions may apply during some time periods. Please see the Department of Population Medicine website for more information.

#### POPM*4040 Epidemiology of Food-borne Diseases F (3-0) [0.50]

This course examines the epidemiology and prevention of food-borne infections and intoxications, including those of both microbiological and chemical origin. Drawing on outbreak investigations, surveys, risk assessments, government surveillance systems and basic research, the biological, ecological, socio-economic and public health context of these diseases will be discussed.

**Prerequisite(s):** 1 of FOOD*3230, POPM*3240

**Restriction(s):** FOOD*4210

#### POPM*4230 Animal Health F (3-0) [0.50]

This course examines the causes and effects of important diseases of food animals in Canada, with a focus on dairy cattle. Elements of physiology, epidemiology, microbiology, nutrition, and production management are integrated into a health management approach emphasizing disease prevention. The course is directed at senior undergraduate students with interest in and knowledge of, food animal production agriculture. (Offered in even-numbered years)

**Prerequisite(s):** ANSC*2340 or ANSC*3080

**Restriction(s):** This is a Priority Access Course and some restrictions may apply during some time periods. Please see the Department of Population Medicine website for more information.
Psychology

Department of Psychology

Students wishing to take a 2000, 3000 or 4000 level course without having completed the appropriate prerequisites must receive permission of the instructor who will determine whether the student has the required background for the course. Students in all psychology courses will be encouraged to participate in the on-going research of the department.

Honours Courses: courses designated with (H) are designed for students in a psychology honours specialization. This includes B.A. Honours Psychology (PSYC) major or minor, B.A. Information Systems and Human Behaviour (ISHB) major, B.Sc. Psychology: Brain and Cognition (PBC), major or minor, and the Neuroscience (NEUR) minor. (H) courses are Honours level requiring for registration a cumulative average of at least 70% in all course attempts in Psychology or registration in the ISHB major, NEUR minor, or PBC major or minor. Unless otherwise specified, all other courses may be taken by students in a general or honors program, providing the prerequisites are met.

Psychology Core: courses marked (C) are Psychology core courses. Students registered in psychology programs are advised to complete at least 2.00 credits of the psychology core at the 2000 level prior to attempting any 3000 level psychology credit.

For courses without semester designations, please check with the department. The remaining courses will normally be offered as indicated. Advance schedules are available in the department.

**PSYC*1000 Introduction to Psychology S,F,W (3-0) [0.50]**
This is an introduction to the content and methods of psychology. It will cover the major areas such as neuroscience, sensation and perception, learning, cognition, motivation, human development, personality, psychopathology and its treatment, and social psychology. (Also offered through Distance Education format.)

Restriction(s): PSYC*1100, PSYC*1200

**PSYC*1010 Quantification in Psychology F,W (3-0) [0.50]**
An introduction to psychological measurement and to statistical principles in psychological research. The course emphasizes descriptive statistics and introduces concepts and techniques of hypothesis testing. (Also offered through Distance Education format.)

Prerequisite(s): 1 of PSYC*1000, PSYC*1100, PSYC*1200

Restriction(s): PSYC*2010, STAT*2040, STAT*2060, STAT*2080, STAT*2090, STAT*2100, STAT*2120

**PSYC*2040 Research Statistics F,W (2-2) [0.50]**
This course emphasizes inferential tests applied to psychological research, skills of data analysis, as well as the use and interpretation of output from statistical software. Topics covered include the t-test, various forms of analysis of variance, chi-square, bivariate and multiple regression, as well as multivariate data analysis.

Prerequisite(s): 1 of PSYC*1010, PSYC*2010, STAT*2040

Restriction(s): PSYC*3320

**PSYC*2310 Introduction to Social Psychology S,F,W (3-0) [0.50]**
The content and research methods of social psychology will be explored in lectures and seminars. Content includes social perception, attraction, group dynamics, leadership, conflict and cooperation, attitude change, aggression and conformity. (Also offered through distance education format.)

Prerequisite(s): 1 of PSYC*1000, PSYC*1100, PSYC*1200

**PSYC*2330 Principles of Learning F (3-0) [0.50]**
This course is an introduction to the basic principles and concepts of classical and instrumental conditioning paradigms of learning. (C)

Prerequisite(s): 1 of PSYC*1000, PSYC*1100, PSYC*1200

**PSYC*2360 Introductory Research Methods S,F,W (3-0) [0.50]**
The application of scientific method in psychological experiments with laboratory demonstration. (Also offered through distance education format.)

Prerequisite(s): 1 of PSYC*1000, PSYC*1100, PSYC*1200, 1 of PSYC*1010, PSYC*2010, STAT*2040

**PSYC*2390 Principles of Sensation and Perception F,W (3-0) [0.50]**
The course objective is to consider the processes of sensory inputs and perception. Approaches ranging from psychophysiology and cognitive psychology to physiology and anatomy will be used. In considering the psychology of sensation and perception, some of the anatomical and physiological aspects of selected senses will be covered in detail and the roles of experience, organization of inputs, and theories of perception are discussed. Topics to be emphasized will vary with the instructor, but may include ontogenetic development, learning, and modification of inputs and their perception. Students will participate in on-line laboratory demonstrations and experiments. (Also offered through distance education format.)

Prerequisite(s): 1 of PSYC*1000, PSYC*1100, PSYC*1200

**PSYC*2410 Behavioural Neuroscience F,W (3-2) [0.50]**
A general introduction to the structure and function of the nervous system. The physiological basis of sensory (input) systems and the motor (output) system are examined as are central physiological bases of processes such as arousal and emotion. Laboratory demonstrations and exercises may be included. (C)

Prerequisite(s): 1 of PSYC*1000, PSYC*1100, PSYC*1200

**PSYC*2450 Introduction to Developmental Psychology F,W (3-0) [0.50]**
An introduction to and an analysis of the major theories of developmental psychology. Emphasis will be placed on the processes of development in the child including physical growth, perception, cognition, personality and interactions with the social environment. The application of developmental psychology to educational and social issues will be discussed. (Also offered through distance education format.)

Restriction(s): FRHD*2270

**PSYC*2650 Cognitive Psychology F,W (3-0) [0.50]**
This course is an introduction to cognitive processes, including topics in the areas of attention, memory, language and reasoning. Students will be exposed to and participate in on-line laboratory demonstrations and experiments. (Also offered through distance education format.)

Prerequisite(s): 1 of PSYC*1000, PSYC*1100, PSYC*1200

**PSYC*2740 Personality S,F,W (3-0) [0.50]**
A review of the theory, assessment procedures and research findings pertinent to major personality constructs. Personality research, methodology and design will also be covered. (Also offered through distance education format.)

Prerequisite(s): 1 of PSYC*1000, PSYC*1100, PSYC*1200

**PSYC*3020 Psychology of Law U (3-0) [0.50]**
An examination of psychological methods, findings and theories in the study of law. Topics will include the fallibility of the eyewitness; juror decisional processes; credibility of witnesses and attorneys; socialization into legal systems, police behaviour, etc. (Also offered through distance education format.)

Prerequisite(s): PSYC*2310 (also see psychology core statement)

**PSYC*3030 Neurochemical Basis of Behaviour U (3-0) [0.50]**
This course analyzes how drugs act on various neurochemical systems to regulate motivation and behaviour. Topics of discussion may include psychopathology and its treatment.

Prerequisite(s): PSYC*2330, (BIOM*3090 or PSYC*2410) (also see psychology core statement)

**PSYC*3070 Psychology in Human Resource Management U (3-0) [0.50]**
This course explores the application of psychological theory and measurement in human resources management. A dual perspective is taken: that of the worker impacted by these practices and that of the manager responsible for implementing them. Specific topics include recruitment, personnel selection, performance management, training, and executive assessment, development, and succession. (Also offered through distance education format.)

Prerequisite(s): PSYC*2310 (also see psychology core statement).

Restriction(s): BUS*3000

**PSYC*3080 Organizational Psychology F,W (3-0) [0.50]**
This course examines current theories and practices in organizational psychology. Selected topics may include motivation, turnover, absenteeism, leadership, job design, work attitudes, organizational justice, and organizational development and change. (Also offered through distance education format.)

Prerequisite(s): PSYC*2310 (also see psychology core statement).

Restriction(s): BUS*2090

**PSYC*3100 Evolutionary Psychology U (3-0) [0.50]**
Evolutionary Psychology (EP) offers a Darwinian frame of reference for studying questions about human nature. After reviewing basic material on genetics and natural selection, we will examine and criticize the contribution of EP to the understanding of the various aspects of individual and social behaviour, such as altruism, logic, mate selection, health, morality, aesthetics, and the role of culture.

Prerequisite(s): PSYC*2360 (also see psychology core statement)

**PSYC*3110 Topics in Health Psychology U (3-0) [0.50]**
This course covers research in health psychology. Possible topics include the interplay of psychosocial factors, behaviour, and physical health; pediatric health psychology; health interventions at the individual, family, group or community levels.

Prerequisite(s): PSYC*2310, PSYC*2450 (also see psychology core statement)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*3250</td>
<td>Psychological Measurement U (3-0) [0.50]</td>
<td>This course is an introduction to the theory of psychological measurement and measurement procedures presently used in psychology. Coverage will include such topics as reliability, validity, test construction; and the measurement of ability, personality, attitudes, interest and achievement. (Also offered through distance education format.) (H)</td>
<td>Prerequisite(s): PSYC*2040 (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3280</td>
<td>Minds, Brains &amp; Machines F (3-0) [0.50]</td>
<td>This course will introduce the student to basic issues in cognitive science from philosophical and psychological perspectives: Connectionism, Turing Machines, artificial intelligence, and alternative naturalistic models of the mind will be among the topics explored.</td>
<td>Prerequisite(s): 1.50 credits in Psychology or 1.50 credits in Philosophy</td>
</tr>
<tr>
<td>PSYC*3300</td>
<td>The Psychology of Gender U (3-0) [0.50]</td>
<td>This course will examine the theories and psychological research that deals with the impact of gender upon people's lives and behaviour. Topics will include gender-role socialization and stereotypes; gender-related status and power differentials; and gender differences and dynamics in the physiological, intrapsychic, interpersonal, and socio-cultural domains.</td>
<td>Prerequisite(s): (1 of PSYC<em>1000, PSYC</em>1100, PSYC*1200) and at least 1.00 credits of the psychology core (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3330</td>
<td>Applied Social Psychology U (3-0) [0.50]</td>
<td>A number of applied issues will be examined from a social psychological perspective. These may include aggression, prejudice, helping, mental illness, crime and addiction. The format will consist of reading, discussion and research/field projects.</td>
<td>Prerequisite(s): PSYC*2310 (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3340</td>
<td>Social and Personality Development U (3-0) [0.50]</td>
<td>An introduction to the conceptions of the structure of language as they relate to processes underlying the acquisition, production, perception and understanding of speech, and to empirical studies that bear on these conceptions.</td>
<td>Prerequisite(s): LING<em>1000 or PSYC</em>2650 (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3350</td>
<td>Cross-Cultural Psychology F (3-0) [0.50]</td>
<td>This course provides an examination of cultural differences from the perspective of psychology, and of individual and group relations within and between culturally diverse societies. The primary goal of this course is to provide a framework and knowledge base with which to understand the various contexts, processes and outcomes of intercultural contact.</td>
<td>Prerequisite(s): 9.50 credits including PSYC*2310</td>
</tr>
<tr>
<td>PSYC*3370</td>
<td>Experimental Design and Analysis F (3-1) [0.50]</td>
<td>This course is intended for students planning to complete PSYC<em>4870 and PSYC</em>4880 in preparation for graduate studies in Psychology. This course emphasizes (1) the model comparison approach to analysis of variance and (2) effective scientific communication. Issues related to design choice, power, multiple-comparisons and categorical data analysis will be reviewed. Laboratory exercises will include SPSS applications and research projects. (H)</td>
<td>Prerequisite(s): PSYC<em>2360, (1 of PSYC</em>2040, PSYC<em>3320 or STAT</em>2050) Restriction(s): PSYC*3371/2. A minimum grade point average of 75% in Psychology courses.</td>
</tr>
<tr>
<td>PSYC*3380</td>
<td>Non-experimental Research Methods W (3-0) [0.50]</td>
<td>This course is intended for students planning to complete PSYC<em>4870 and PSYC</em>4880 in preparation for graduate studies in Psychology. This course addresses issues related to the internal and external validity of quasi-experimental, correlation and other non-experimental research methods, survey sampling and the development and refinement of survey questions. Course work includes SPSS applications, research projects and style of effective scientific communication. (H)</td>
<td>Prerequisite(s): PSYC<em>2360, (1 of PSYC</em>2040, PSYC<em>3320 or STAT</em>2050) Restriction(s): PSYC*3371/2. A minimum grade point average of 75% in Psychology courses.</td>
</tr>
<tr>
<td>PSYC*3390</td>
<td>Abnormal Psychology U (3-0) [0.50]</td>
<td>Current theory and research in the field of abnormal psychology will be examined in terms of various models (biological, behavioral, social and psychodynamic). Selected topics may include: stress and anxiety, affective disorders, schizophrenia, psychophysiological and personality disorders, and mental health. (Also offered through distance education format.)</td>
<td>Prerequisite(s): PSYC*2740 (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3410</td>
<td>Behavioural Neuroscience II U (3-0) [0.50]</td>
<td>This course will focus on contemporary research and theory related to such selected topics as physiological correlates of memory, learning, motivation, emotion, stress, sensory and motor functions. Both the central and peripheral components of the nervous system will be examined in relation to the above.</td>
<td>Prerequisite(s): PSYC*2410 (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3440</td>
<td>Cognitive Development U (3-0) [0.50]</td>
<td>An examination of theory and research pertaining to children's intellectual development. Topics include children's learning and the development of perception, memory, thinking and language.</td>
<td>Prerequisite(s): FRHD<em>2270 or PSYC</em>2450 (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3450</td>
<td>Social and Personality Development U (3-0) [0.50]</td>
<td>An examination of research, methodological issues and theories concerning personality-social development. Topics may include temperament, imitation, parent-child interaction, and the development of attachments, sex-roles, morality, aggression and pro-social behaviour.</td>
<td>Prerequisite(s): FRHD<em>2270 or PSYC</em>2450 (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3460</td>
<td>Abnormal Development U (3-0) [0.50]</td>
<td>Theory, research and aspects of current practice concerning abnormal psychological development in childhood and adolescence.</td>
<td>Prerequisite(s): PSYC<em>3440 or PSYC</em>3450 (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3480</td>
<td>Psychology of Sport U (3-0) [0.50]</td>
<td>An examination of individual and group behaviour in physical activities and sports. Emphasis will be placed on understanding psychological concepts which are pertinent to sports, e.g., motivation, social and personality development, cognition, leadership and group dynamics.</td>
<td>Prerequisite(s): (1 of PSYC<em>1000, PSYC</em>1100, PSYC<em>1200), (PSYC</em>2310 or PSYC*2740) (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3470</td>
<td>The Psychology of Death and Dying U (3-0) [0.50]</td>
<td>An examination of theory, research, and issues in the psychology of death and dying. Emphasis is upon the cognitive operations used to process information about death and the influence of death constructs in daily life. Topics include the development of death concepts throughout the life-span, death anxiety in society, the needs of the dying person, the psychology of grieving, and unexpected losses such as deaths by suicide or miscarriage. (Offered through distance education format only.)</td>
<td>Prerequisite(s): 1 of PSYC<em>2310, PSYC</em>2740, PSYC*2450, work experience in related fields, instructor consent (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3560</td>
<td>Contemporary Psychology U (3-0) [0.50]</td>
<td>Some current developments in psychology. Topics will vary with the interests of faculty members assigned to the course and will be announced prior to the course selection period.</td>
<td>Prerequisite(s): previous study related to the topic area (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3690</td>
<td>Community Mental Health U (3-0) [0.50]</td>
<td>This course is an introduction to the principles and practices of community mental health and community psychology. The course deals with the application of public health concepts to the field of mental health, the epidemiology of mental disorder in the community, the design and evaluation of preventive programs for populations at risk of illness, and the creation of alternatives to institutional treatment of the mentally ill. This course should be of special interest to students who are planning to pursue careers in such human service fields as social work and occupational therapy.</td>
<td>Prerequisite(s): PSYC*2310 (also see psychology core statement)</td>
</tr>
<tr>
<td>PSYC*3710</td>
<td>Psychology of Learning Difficulties and Disabilities I F (3-0) [0.50]</td>
<td>An examination of current theories regarding learning difficulties and disabilities in educational settings. Emphasis will be placed on cognitive, social and motivational factors associated with learning problems and on behavioral and educational remedial approaches. (Also offered through distance education format.)</td>
<td>Prerequisite(s): 1 of FRHD<em>2270, PSYC</em>2450, PSYC*2650 (also see psychology core statement)</td>
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</tbody>
</table>
PSYC*3720 Psychology of Learning Difficulties and Disabilities II W (3-0) [0.50]
This is a continuation of PSYC*3710. Students will develop and report on a systematic remedial project involving an underachieving school-age child.
Prerequisite(s): PSYC*3710 and 3.00 credits in PSYC courses (also see psychology core statement)

PSYC*3800 Psychology and Education U (3-0) [0.50]
The application of psychological principles and techniques to the study of the educational process. (Also offered through distance education format.)
Prerequisite(s): 1 of FRHD*2270, PSYC*1000, PSYC*1100, PSYC*1200 (also see psychology core statement)

PSYC*3850 Intellectual Disabilities U (3-0) [0.50]
This course covers applied and theoretical aspects of intellectual disabilities, and lays a foundation for work in the area of intellectual disabilities. (Also offered through distance education format.)
Prerequisite(s): FRHD*2270 or PSYC*2450 (also see psychology core statement)

PSYC*3900 Psychology Research Internship F,WS (0-6) [0.50]
This course provides an experiential learning opportunity through the active participation of the student in a faculty member's ongoing research program. It is expected that students will develop a broader appreciation of the relationship between knowledge, theory and research while acquiring basic skills in research methodologies and modes of inquiry. The course will require involvement in both the practice and reporting of research. The student must consult the supervisory faculty member before selecting or registering for the course.
Prerequisite(s): (1 of PSYC*1000, PSYC*1100, PSYC*1200), (1 of PSYC*1010, PSYC*2010, STAT*2040) and at least 1.00 credits at the 2000 level of the psychology core
Restriction(s): Instructor consent required.

PSYC*3910 Psychology Externship F,WS (0-6) [0.50]
An independent program of study formally integrating the student's academic study with one or more work experiences, to be decided by the student in consultation with the supervisory faculty (normally the department's co-op coordinator) prior to registration in the course. In order to qualify for this course, the student must be employed in a work setting at the time of registration to help ensure that a suitable project is feasible in the context of a work placement or employment. The department is responsible for obtaining employment. The course project is aimed at making a significant contribution to the work setting. The student must consult with the supervisory faculty before selecting or registering for the course. (Enrolment is limited. Not open to co-op students.)
Prerequisite(s): (1 of PSYC*1000, PSYC*1100, PSYC*1200), (1 of PSYC*1010, PSYC*2010, STAT*2040) and at least 1.00 credits at the 2000 level of the psychology core) or enrolment in the B.Comm Program, Human Resources Management Major
Restriction(s): Instructor consent required.

PSYC*4050 Seminar in Animal Learning F (3-0) [0.50]
Major areas of research in animal learning will be covered in a seminar format. Students will orally present research articles and/or review articles in a selected topic in Animal Learning. The selected topic will vary on the basis of the expertise of the instructor. Students will be expected to develop a research proposal as a significant component of the course.
Prerequisite(s): 14 credits including PSYC*2330, PSYC*2410

PSYC*4310 Advanced Topics in Social Psychology U (3-0) [0.50]
An in-depth examination of specific advances in social psychological research, theory, and/or applications. Specific topics, to be announced prior to course selection, will vary according to the interests of the instructor of the course.
Prerequisite(s): PSYC*3310 or PSYC*3500 (also see psychology core statement)

PSYC*4320 Advanced Applied Social Psychology U (3-0) [0.50]
This seminar course deals with topics of an applied social nature. This course may focus on a single or a variety of topics such as: health, forensics, conflict (inter-group and interpersonal), social justice and cultural issues. This course addresses both research and practice issues and covers a variety of theories and methodologies.
Prerequisite(s): PSYC*3310 or PSYC*3500

PSYC*4330 Advanced Topics in I/O Psychology U (3-0) [0.50]
Students will examine theoretical and methodological issues in selected topic areas of industrial/organizational psychology. The focal area of the course, or range of industrial/organizational topics covered by the course, will vary depending on instructor. Selected topic areas may include leadership issues, gender issues, human rights issues, recruitment methods and outcomes, functional job analysis and validation methods, job performance criteria and appraisal tools, selection processes and tools, organizational justice, work attitudes, and prejudice and discrimination in the workplace. Specific topic areas will be announced prior to the course selection period.
Prerequisite(s): PSYC*3070, PSYC*3080

PSYC*4370 History of Psychology U (3-0) [0.50]
The historical roots of modern psychology. Students electing to major by completing the Honours Thesis Courses I and II should note that they are expected to also take either PSYC*4900, or this course, prior to, or concurrent with, either PSYC*4870 or PSYC*4880 (see Graduate Advisory Note under Major).
Prerequisite(s): 4.00 credits in psychology, with at least 1.00 credits at the 3000 level or above.

PSYC*4440 Contemporary Issues in Child Development U (3-0) [0.50]
This course is primarily designed for students in the Psychology program whose special interests are developmental. Students will examine theoretical and methodological issues in a specific area of developmental psychology. The course will involve detailed evaluation of selected studies and when appropriate, student research projects.
Prerequisite(s): PSYC*2360, (PSYC*3440 or PSYC*3450)

PSYC*4460 Seminar in Clinical Psychology F (3-0) [0.50]
This course deals with issues and theories in clinical psychology. It is intended primarily for honours students in psychology who plan to pursue further training in clinical psychology at the graduate level or who plan to work in a setting where knowledge of clinical psychology would be an asset. Topics may include psychological assessment, treatment, and outcome research. Students will acquire an understanding of the scientific and professional roles of clinical psychologists, key concepts and techniques of the major orientations of psychotherapy, and current debates in the field.
Prerequisite(s): PSYC*3390 or PSYC*3460

PSYC*4470 Behavioural Neuroscience Seminar W (3-0) [0.50]
Major areas of behavioural neuroscience research will be covered in a seminar format. Students will be expected to develop a research proposal as a significant component of the course, and will prepare for this requirement through oral presentations and discussions of published research and/or review articles in a selected topic in Behavioural Neuroscience. The selected topic will vary on the basis of the expertise of the instructor.
Prerequisite(s): 14.00 credits including PSYC*2410
Restriction(s): Registration in one of: B.A. Psychology major, B.Sc. Psychology: Brain and Cognition major, or Neuroscience minor.

PSYC*4500 Current Theoretical Issues in Psychology S,F,W (3-0) [0.50]
An independent program of study in topics of current theoretical import in psychology, to be decided by the student in consultation with the supervisory faculty member before the student may select or register for the course.
Prerequisite(s): 4.00 credits in psychology, with at least 1.00 credits at the 3000 level or above
Restriction(s): Instructor consent required.

PSYC*4510 Current Issues in Psychology S,F,W (0-6) [0.50]
The study of issues of current interests in psychology. Topics will vary with the interests of faculty members assigned to the course and will be announced prior to the course selection period. The course is available either as a senior lecture/seminar course with regularly scheduled class times, or as an independent study course with the topic and schedule decided in advance by the student in conjunction with a supervisory faculty member.
Prerequisite(s): 4.00 credits in psychology, with at least 1.00 credits at the 3000 level or above and previous study related to the topic area (also see psychology core statement)
Restriction(s): Instructor consent required.

PSYC*4600 Cognitive Neuroscience U (3-0) [0.50]
This course will focus on methods used in contemporary cognitive neuroscience (including but not limited to: PET, functional MRI, EEG, intracranial stimulation and recording) as they aid in the elucidation of neural basis of behaviour.
Prerequisite(s): PSYC*2360, (1 of PSYC*2390, PSYC*2410, PSYC*2650), (also see psychology core statement)
### PSYC*4750 Seminar in Motivation and Emotion U (3-0) [0.50]
This course examines the topics of motivation and emotion from various subdisciplinary perspectives, adopting a senior seminar format and problem-centred approach. (H)

**Prerequisite(s):** 15.0 credits

### PSYC*4870 Honours Thesis I S,F,W (3-0) [0.50]
Under individual faculty supervision, students plan, develop, and write a research proposal and prepare an extensive review paper on their area of research. Group sessions are held on research ethics, subject protocols and computer data handling techniques. This course will be graded on a Pass/Fail basis. Note that enrolment in this course is limited and academic records are used for student selection. Course registration requires the signature of the Chair or the Associate Chair. This signature is contingent upon the student demonstrating they have obtained a Thesis Supervisor's signature on the department's Thesis Registration Form and have an academic standing appropriate for application to graduate programs (see Graduate Advisory under Major). As well, registration for Honours Thesis I will require that either PSYC*4370 or PSYC*4900 is taken prior to, or concurrent with, either PSYC*4870 or PSYC*4880. (H)

**Prerequisite(s):** PSYC*3370, PSYC*3380, 70% average across [(1 of PSYC*1010, PSYC*2010, STAT*2040), (1 of PSYC*2040, PSYC*3320, STAT*2050)]

**Restriction(s):** Instructor consent required.

### PSYC*4880 Honours Thesis II S,F,W (3-10) [1.00]
This course is a continuation of PSYC*4870. Students conduct research and write an undergraduate thesis under the direction of a faculty member. Note that registration in this course will require that either PSYC*4370 or PSYC*4900 is taken prior to, or concurrent with, either PSYC*4870 or PSYC*4880. (H)

**Prerequisite(s):** PSYC*4870

### PSYC*4900 Psychology Seminar U (3-0) [0.50]
Student seminars and discussions will be organized around theoretical and substantive issues in the discipline of psychology. A major objective is to assist advanced undergraduate students to achieve a degree of synthesis of materials studied in their previous psychology courses (also see psychology core statement). Students electing to Major by completing the Honours Thesis I and II should note that they are expected to also take either PSYC*4370, or this course, prior to, or concurrent with, either PSYC*4870 or PSYC*4880 (see Graduate Advisory under Major). (H)

**Prerequisite(s):** 14.00 credits (including 4.00 credits in psychology, with at least 1.00 credits at the 3000 level or above)

**Restriction(s):** Registration in a Psychology Major of an Honours program.

### PSYC*4910 Co-operative Education Project I S,F,W (0-6) [0.50]
An independent program of study formally integrating the student's academic study with 1 or more work experiences provided by the co-operative education program, to be decided by the student in consultation with the supervisory faculty. The course is normally to be taken concurrently with a co-operative education work term, with the project preferably aimed at making a significant contribution to the work setting. (H)

**Prerequisite(s):** 2 co-operative education work terms

**Restriction(s):** Instructor consent required.
Real Estate and Housing

Department of Business - College of Management and Economics

REAL*1820 Real Estate and Housing F (3-0) [0.50]
This survey course acquaints students with the theories, practices and principles of real estate and housing. Topics include how real estate assets and markets differ from other assets, government involvement in the housing and real estate sectors, non-market housing in Canada, financing real estate, and development.

Equate(s): COST*1820, MCS*1820
Restriction(s): COST*1800. This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

REAL*2820 Real Estate Finance W (3-0) [0.50]
This course examines the financing of both residential and commercial investment real estate. A mathematical approach is used to examine the impact of various lender and borrower decisions about loan terms (amortization periods, pre-payment options, etc.). The evolution of the Canadian housing finance system is contrasted with that in the United States. New methods of financing real estate other than traditional mortgages are discussed.

Prerequisite(s): 5.00 credits
Equate(s): COST*2820, MCS*2820
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

REAL*2850 Service Learning in Housing F (3-0) [0.50]
This course provides an introduction to ethics and social capital as they apply to the housing and real estate industries. Students will be required to participate in a 10-15 hour service learning exercise where they volunteer for a frontline housing agency/provider. They will then share their experiences with their classmates during the final week of classes.

Prerequisite(s): 4.00 credits
Equate(s): COST*2850, MCS*2850
Restriction(s): MCS*2810. This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

REAL*3810 Real Estate Market Analysis F (3-0) [0.50]
In this course students examine the processes used to analyze supply and demand in the real estate market. The course focuses on using research methodologies to define the scope of analysis; identify data needs; collect information from various sources, including on-line resources; and interpret the results. Applications to different property types are discussed. Current market trends are also examined. As well, the course deals with marketing real estate: listing procedures, advertising, negotiating.

Prerequisite(s): (MC*1820 or REAL*1820), STAT*2060
Equate(s): COST*3810, MCS*3810
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

REAL*3870 Topics in Housing U (3-0) [0.50]
Lecture-discussion or seminar on a selected topic or area of specialization related to housing to be conducted by faculty with special interests or expertise in the area. Students should confirm with the department prior to course selection what topic(s), if any, will be offered during specific semesters.

Prerequisite(s): Will be indicated by the department when the course is offered.
Equate(s): COST*3870, MCS*3870
Restriction(s): Instructor consent required.

REAL*3880 Topics in Housing U (3-0) [0.50]
Lecture-discussion or seminar on a selected topic or area of specialization related to housing to be conducted by faculty with special interests or expertise in the area. Students should confirm with the department prior to course selection what topic(s), if any, will be offered during specific semesters.

Prerequisite(s): Will be indicated by the department when the course is offered.
Equate(s): COST*3880, MCS*3880
Restriction(s): Instructor consent required.

REAL*3890 Property Management W (3-0) [0.50]
Financial theory is used to examine the diversification benefits of including real estate with financial assets in an investment portfolio. Diversification strategies within a real estate portfolio are also covered. The marketing and leasing of real estate space culminates in a leasing negotiation exercise between pairs of students. Differing property management issues faced by managers of residential, office, retail, industrial and mixed use properties are covered.

Prerequisite(s): (1 of COST*1800, REAL*1820, MCS*1820), (1 of ACCT*2230, BUS*2230, ECON*3560, HTM*3070, MCS*2820, REAL*2820)
Equate(s): COST*3890, MCS*3890
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

REAL*4820 Real Estate Appraisal F (3-0) [0.50]
This course deals with the basic principles involved in valuing real estate. The market comparison, cost and income approaches of appraisal are covered. The major emphasis in the course is on using discounted cash flow projections to value income-producing real estate. The term project involves the use of a spreadsheet program to estimate property value for a property chosen by the student. While valuation of single family homes is covered, the main emphasis is on investment real estate.

Prerequisite(s): (CIS*1000 or MCS*2020), (1 of ACCT*2230, BUS*2230, ECON*3560, HTM*3070, MCS*2820, REAL*2820)
Equate(s): MCS*4820
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

REAL*4830 Real Estate Development Project W (3-0) [1.00]
This is a capstone course covering the real estate development process and bringing together concepts from all other Real Estate and Housing courses. It deals with the development, redevelopment and renewal of real estate and housing services. Students will complete a phased project that considers all aspects of development feasibility including market analysis, physical constraints, financial viability and government regulation. (First offering - Winter 2015)

Prerequisite(s): 15.00 credits including, (MCS*3810 or REAL*3810), (MCS*4820 or REAL*4820)
Restriction(s): MCS*3820, MCS*4810. This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.

REAL*4840 Housing and Real Estate Law F (3-0) [0.50]
This course lays out the legal principles which guide the expanding and changing body of law dealing with housing and real estate development and forms of occupancy, statutory and regulatory matters are explored.

Prerequisite(s): 9.00 credits including MCS*1000, (1 of COST*1800, MCS*1820, REAL*1820), (MCS*2820 or REAL*2820)
Equate(s): MCS*4840
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods. Please contact the department for more information.
Sociology

Department of Sociology and Anthropology

The Department of Sociology and Anthropology offers three types of courses: sociology courses with the prefix SOC*; anthropology courses with the prefix ANTH*; and departmental courses with the prefix SOAN*.

Courses will normally be offered in the semesters designated. For information on other semesters these courses will be offered and the semesters those courses without designations will be offered, please check with the department. In addition to regularly scheduled courses, students may elect to do independent study. A student who wishes to do a reading course should first consult the professor with whom he/she wishes to work. Please note: a student is allowed a total of 1.00 credits only for reading courses.

SOC*1100 Sociology S,F,W (3-0) [0.50]
An introductory course dealing with the basic concepts and methods of sociology applied to societies, groups and individuals. Students will gain an understanding of basic social processes such as socialization, social exchange, deviance and conformity, social change and basic social institutions such as the economy, the polity, the family, religion, education. (Also offered through Distance Education format.)

SOC*1500 Crime and Criminal Justice F,W (3-0) [0.50]
This course will introduce students to the study of crime and criminal justice. It will examine the various criminological theories, types of criminal behaviour, and the criminal justice system.

SOC*2010 Canadian Society U (3-0) [0.50]
A description of the structure of Canadian society with its social, political and economic tensions.

SOC*2070 Social Deviance S,F,W (3-0) [0.50]
An introduction to some of the basic theories of deviance and social control and their application to selected social problems. (In spring semester offered through Distance Education format only.)

Restriction(s): Priority Access course. Enrolment may be restricted to particular programs or specializations. Please see the departmental website.

SOC*2080 Rural Sociology W (3-0) [0.50]
An introduction to the structure and processes of rural society. This course deals with diverse topics such as agrarian movements, the rise of the agro-industrial complex, the role of the state in agriculture, the question of community, and rural environmental issues. A comparative perspective is cultivated, although the primary emphasis is on Canadian society.

Prerequisite(s): 1 of ANTH*1150, GEOG*1220, SOC*1100

SOC*2280 Society and Environment U (3-0) [0.50]
An introduction to the nature and dimensions of the environmental crisis. The values, interests and social institutions (including government and industry) that promote pollution or environmentalism will be considered. Issues to be examined may include global warming, nuclear energy, environmental toxins, species extinction and population growth pressures.

Prerequisite(s): 1 of ANTH*1150, GEOG*1220, SOC*1100

SOC*2390 Class and Stratification U (3-0) [0.50]
An examination of the persistent bases of social inequalities such as wealth, income, power and prestige including class formation, class consciousness, political activity and social mobility.

Prerequisite(s): SOC*1100

SOC*2700 Criminological Theory F,W (3-0) [0.50]
This course will examine the development of criminological theory from the late 1700s to contemporary times.

Prerequisite(s): SOC*1500

SOC*2760 Homicide S,F,W (3-0) [0.50]
This course will review legal definitions of homicide, statistical trends in homicide—both in Canada and internationally—and theoretical explanations of homicide. The course will also examine the key criminological/sociological empirical research studies on the various types of homicide, such as: femicide, familialicide, serial and mass murder. (Offered through Distance Education format only.)

Prerequisite(s): 1 of ANTH*1150, FRHD*1010, PHIL*1010, POLS*1400, PSYC*1100, PSYC*1200, SOC*1100, SOC*1500

Restriction(s): Priority Access course. Enrolment may be restricted to particular programs or specializations. Please see the departmental website for more information.

SOC*3040 Sociology of Social Welfare W (3-0) [0.50]
This course examines the major factors that shape the welfare state and considers what impact welfare policies have on people. Central to the discussion is welfare in Canada and what changes are desirable and feasible. (Offered in odd-numbered years.)

Prerequisite(s): SOAN*2112, SOAN*2120

SOC*3110 Comparative Religious Systems W (3-0) [0.50]
An analysis of stability and change in patterns of religious beliefs, behaviour and institutions. (Offered in odd-numbered years.)

Prerequisite(s): SOAN*2112, SOAN*2120

SOC*3130 Politics and Society U (3-0) [0.50]
An interpretation of the political process and its relationship to other aspects of the social structure, including such topics as political parties, movements, factions, citizen participation, power structures and the process of political exchange.

Prerequisite(s): SOAN*2112, SOAN*2120

SOC*3310 Contemporary Theory F (3-0) [0.50]
This course outlines and evaluates the major theories in use today. A central aspect of the course is instruction in the application of these theories.

Prerequisite(s): SOAN*2112, SOAN*2120

SOC*3340 Education, Change and Resistance U (3-0) [0.50]
An examination of educational institutions and their relationships to other sectors of society, in particular political and economic. Topics include the nature and objectives of education, equality of opportunity, measures of educational achievement and attainment, manifest and hidden curricula, and public policy.

Prerequisite(s): SOAN*2112, SOAN*2120

SOC*3380 Society and Nature U (3-0) [0.50]
The course provides a range of worldviews which address the relations between society and the environment. Material in the course will include historical perspectives and contemporary perspective, thereby allowing students to understand that worldviews concerning this crucial relation are dynamic, changing and reflect the diverse, and sometimes competing, perspectives of a society within particular moments of history.

Prerequisite(s): GEOG*2210 or SOC*2280

SOC*3410 Individual and Society U (3-0) [0.50]
Examining social-psychology from the sociological perspective, this course deals with the relation between social and cultural structure, on the one hand, and self or personality on the other. Employing symbolic interactionism and affect control theory, the course shows how social interaction mediated by language is the well-spring of both social cognitions and emotions.

Prerequisite(s): SOAN*2112, SOAN*2120

SOC*3490 Law and Society S,W (3-0) [0.50]
This course examines the social basis of law. Specific topics include the law as an instrument of stability or change, and the role of law makers, law enforcers and interpreters, including the legal profession, the police, judges and courts. (Also offered through Distance Education format.)

Prerequisite(s): (SOAN*2112 or SOC*2700), SOAN*2120

Restriction(s): Priority Access course. Enrolment may be restricted to particular programs or specializations. Please see the departmental website.

SOC*3710 Young Offenders F,W (3-0) [0.50]
This course examines concerns about youth crime in Canada and elsewhere. It examines the history of legislation to control youth crime, criminal justice processing and practices, public reactions and concerns about youth crime and theoretical models used to explain youth crime.

Prerequisite(s): (SOAN*2112 or SOC*2700), SOAN*2120

Restriction(s): Registration in Anthropology, Criminal Justice & Public Policy or Sociology (major, minor or area of concentration).
SOC*3730 Courts and Society W (3-0) [0.50]
This course is an introduction to the social processes involved in the court, particularly the criminal court. Typical concerns will be the place of courts in society, public opinion and confidence in courts, purposes and principles of sentencing, sentencing reforms and disparities (e.g., across gender and race), the role of criminal records, juries, the roles of judges, and alternatives to criminal courts.
Prerequisite(s): (SOAN*2112 or SOC*2700), SOAN*2120
Restriction(s): Registration in Anthropology, Criminal Justice & Public Policy or Sociology (major, minor or area of concentration).

SOC*3740 Corrections and Penology F (3-0) [0.50]
This course will examine the current state of knowledge regarding the role of corrections and penology. It will examine such specific issues as public perception and reaction to the criminal justice system's methods of punishment and treatment of criminal offenders, the effectiveness of sentencing options and policies, including fines, probation, prison sentences and parole. It will also examine the various theoretical and methodological approaches to the study of courts, corrections and penology.
Prerequisite(s): (SOAN*2112 or SOC*2700), SOAN*2120
Restriction(s): Registration in Anthropology, Criminal Justice & Public Policy or Sociology (major, minor or area of concentration).

SOC*3750 Police in Society F,W (3-0) [0.50]
This course will examine the role of police in society. It will examine theories of policing, the history of policing and such issues as police citizen interaction, relations with visible minorities, methods for controlling police behaviour, and the effectiveness of the police in carrying out specific policy directives.
Prerequisite(s): (SOAN*2112 or SOC*2700), SOAN*2120
Restriction(s): Registration in Anthropology, Criminal Justice & Public Policy or Sociology (major, minor or area of concentration).

SOC*3840 Seminar in Sociology F,W (3-0) [0.50]
This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.
Prerequisite(s): 10.00 credits including (1 of SOAN*2112, SOC*2080, SOC*2700), SOAN*2120

SOC*3850 Seminar in Sociology F,W (3-0) [0.50]
This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available.
Prerequisite(s): 10.00 credits including (1 of SOAN*2112, SOC*2080, SOC*2700), SOAN*2120

SOC*3950 Special Projects in Sociology S,F,W (3-0) [0.50]
This special study option/reading course is designed to provide advanced undergraduates with an opportunity to explore independently the frontiers and foundations of afield of knowledge. Under supervision, the student will study in greater depth topics related to regular upper-level courses offered in the department which the student has taken or is taking. Permission of the instructor who will be supervising the study is required.
Prerequisite(s): 10.00 credits
Restriction(s): Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.

SOC*4010 Violence and Society F,W (3-0) [0.50]
This course will focus on the changing nature of violence in our society by critically evaluating theory, research and public policy on the causes and control of violence. The links among structural, institutional and interpersonal violence will be examined as well as the social construction of violence, particularly why some forms of violence are considered to be more serious social problems than others.
Prerequisite(s): 14.00 credits including (SOC*2700 or SOC*3310), (SOCAN*3120 or POLS*3650)
Restriction(s): Restricted to students in BAH:CJPP and BAH:SOC with an average of 70% in all course attempts in Political Science, Sociology and Sociology and Anthropology courses

SOC*4030 Advanced Topics in Criminology F (3-0) [0.50]
This is an in-depth study of selected issues in criminology.
Prerequisite(s): 14.00 credits including (2 of SOC*3490, SOC*3710, SOC*3730, SOC*3740, SOC*3750), (1 of ANTH*3690, SOC*2700, SOC*3310), (SOAN*3120 or POLS*3650)
Restriction(s): Restricted to students in BAH:CJPP with an average of 70% in all course attempts in Political Science, Sociology and Sociology and Anthropology.

SOC*4200 Advanced Topics in Criminal Justice W (3-0) [0.50]
This is an in-depth study of issues in criminal justice.
Prerequisite(s): 14.00 credits including (2 of SOC*3490, SOC*3710, SOC*3730, SOC*3740, SOC*3750), (1 of ANTH*3690, SOC*2700, SOC*3310), (SOAN*3120 or POLS*3650)
Restriction(s): Restricted to students in BAH:CJPP with an average of 70% in all course attempts in Political Science, Sociology and Sociology and Anthropology.

SOC*4210 Advanced Topics in Rural Sociology U (3-0) [0.50]
A critical examination of the research literature in rural sociology, both in industrial and industrializing societies.
Prerequisite(s): 12.50 credits including (SOAN*2120 or GEOG*2210), SOC*2080

SOC*4230 Comparative Sociology W (3-0) [0.50]
Societies and social institutions in cross-cultural perspectives. The focus of this course will vary but in every instance will explicitly involve cross-cultural comparisons. (Offered in even-numbered years.)
Prerequisite(s): 12.50 credits including SOAN*2120, SOC*2080

SOC*4300 Theoretical and Methodological Issues U (3-0) [0.50]
This course will provide an opportunity for sociology majors to consider in detail the integration of theoretical and methodological issues at an advanced level. It is meant to engage students in the latest developments in a particular area of the discipline. Course topics will be announced and course outlines will be available at course selection time. This course is highly recommended to students who are considering graduate work in sociology.
Prerequisite(s): 14.00 credits including SOAN*3070, SOAN*3120, SOC*3310

SOC*4310 Advanced Topics in Canadian Society U (3-0) [0.50]
A detailed examination of selected topics in Canadian society such as regional tensions, aboriginal issues, implications of free trade, constitutional reform, social programs.
Prerequisite(s): 12.50 credits including (ANTH*3690 or SOC*3310), SOAN*3070, SOC*2080

SOC*4410 Women, Work and Public Policy U (3-0) [0.50]
In this course students will critically assess the transformation of women's work in contemporary society. A range of topics pertaining to women's work will be explored with particular attention paid to the processes through which class, gender, race, ethnicity, and age shape divisions of work. The course will also focus on theories that have attempted to explain the transformation of women's work.
Prerequisite(s): 12.50 credits including (ANTH*3690 or SOC*3310), SOAN*3070, SOC*2080

SOC*4420 Sociology of Food Systems F (3-0) [0.50]
This course is directed towards upper level students in sociology and related disciplines who wish to consider the variety of contentious issues surrounding food in the contemporary world. The course will encourage a sociological approach to food systems that is both historically informed and comparative in scope.
Prerequisite(s): 12.50 credits including (1 of ANTH*2160, SOAN*2112, SOC*2700), (SOAN*2120 or WMST*3000)

SOC*4440 Sociology of Food Systems W (3-0) [0.50]
This course uses the full range of sociological theory to suggest what alternative ways of organizing society might be possible. Students will examine different accounts of theories of why outcomes are not equal from functionalist theories of stratification to theories of class domination and exploitation to economic market accounts to feminist accounts based on patriarchy. This course will allow students to bring together for themselves a wide range of theories used in other courses and apply them to their own ideals might be implemented.
Prerequisite(s): 12.50 credits including (1 of ANTH*3690, SOC*2700, SOC*3310), (POLS*3180 or SOAN*3120)

SOC*4450 Semiotics: Theory & Methodology F (3-0) [0.50]
In this seminar students are introduced to semiotics as an interdisciplinary field, both as a theory and as a methodology.
Prerequisite(s): 12.50 credits including SOAN*2120, (ANTH*3690 or SOC*3310)
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Pre-requisite(s)</th>
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<tbody>
<tr>
<td>SOC*4700</td>
<td>Seminar: Theoretical Issues in Sociology</td>
<td>12.50 credits including SOC<em>3310, SOAN</em>3070, SOAN*3120</td>
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<td>U (3-0) [0.50]</td>
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<tr>
<td>SOC*4740</td>
<td>Seminar in Sociology F, W (3-0) [0.50]</td>
<td>12.50 credits including SOC<em>3310, SOAN</em>3070, SOAN*3120</td>
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<td>This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available. Prerequisite(s): 12.50 credits including SOC<em>3310, SOAN</em>3070, SOAN*3120</td>
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<td>SOC*4840</td>
<td>Seminar in Sociology F, W (3-0) [0.50]</td>
<td>12.50 credits including SOC<em>3310, SOAN</em>3070, SOAN*3120</td>
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<td>This course will be offered as a structured seminar on various topics depending upon the interests of the faculty member teaching the course. Topics will be announced and course outlines will be available at course selection. The availability of third and fourth year seminar courses will vary. Students must check with the Department of Sociology and Anthropology to see when seminar courses are available. Prerequisite(s): 12.50 credits including SOC<em>3310, SOAN</em>3070, SOAN*3120</td>
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<td>SOC*4880</td>
<td>Special Projects in Sociology S, F, W (3-0) [0.50]</td>
<td>12.50 credits: Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.</td>
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<td>This special study/reading course option is designed to provide advanced undergraduates with an opportunity to explore independently the frontiers and foundations of a field of knowledge. Under supervision, the student will study in greater depth topics related to regular upper-level courses offered in the department which the student has taken or is taking. Permission of the instructor who will be supervising the project is required. Prerequisite(s): 12.50 credits Restriction(s): Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.</td>
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<td>SOC*4890</td>
<td>Special Projects in Sociology S, F, W (3-0) [0.50]</td>
<td>12.50 credits: Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.</td>
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<tr>
<td>SOC*4900</td>
<td>Honours Sociology Thesis I S, F, W (3-0) [0.50]</td>
<td>15.00 credits including SOC<em>3310, SOAN</em>3070, SOAN<em>3120. CIPP students must have 15.00 credits including SOC</em>2700, SOAN<em>3120, or POLS</em>3650. Restriction(s): A cumulative average of 70% in all Sociology and Anthropology courses. Instructor consent required.</td>
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<td>Development and design of an honours thesis proposal conducted under the supervision of a faculty member. Recommended to Honours students. Prerequisite(s): 15.00 credits including SOC<em>3310, SOAN</em>3070, SOAN<em>3120. CIPP students must have 15.00 credits including SOC</em>2700, SOAN<em>3120, or POLS</em>3650. Restriction(s): A cumulative average of 70% in all Sociology and Anthropology courses. Instructor consent required.</td>
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<td>SOC*4910</td>
<td>Honours Sociology Thesis II S, F, W (3-0) [0.50]</td>
<td>12.50 credits: Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.</td>
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<td>Completion and presentation of honours thesis. Prerequisite(s): SOC*4900 Restriction(s): Instructor consent required.</td>
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So long as dogs live, the young foxes shall know when to stay away.

**Sociology and Anthropology**

The Department of Sociology and Anthropology offers three types of courses: sociology courses with the prefix SOC*; anthropology courses with the prefix ANTH*; and departmental courses with the prefix SOAN*.

**SOAN*2040 Globalization of Work and Organizations F,W (3-0) [0.50]**

This course examines the sociological dimensions of work and occupations. Specific topics may include: the organizational context of work, occupational and labour market structures, job satisfaction, industrial relations, technological change, and the effects of gender, age, race/ethnicity on how work and employment are experienced.

**Prerequisite(s):** ANTH*1150 or SOC*1100

**SOAN*2111 Classical Theory F (3-0) [0.50]**

First part of the two-semester course SOAN*2111/2. Refer to SOAN*2111/2 for course description.

**Prerequisite(s):** 1 of ANTH*1150, SOC*1100, SOC*1500

**SOAN*2111/2 Classical Theory F-W [1.00]**

This course explores the origins and early development of sociological theory in its classical and early contemporary traditions. When you select it you must select SOAN*2111 in the Fall semester and SOAN*2112 in the Winter semester. A grade will not be assigned to SOAN*2111 until SOAN*2112 has been completed.

**Prerequisite(s):** 1 of ANTH*1150, SOC*1100, SOC*1500

**SOAN*2112 Classical Theory W (3-0) [0.50]**

Second part of the two-semester course SOAN*2111/2. Refer to SOAN*2111/2 for course description.

**Prerequisite(s):** SOAN*2111

**SOAN*2120 Introductory Methods F,W (3-0) [0.50]**

A general introduction to the process of social research emphasizing research design, techniques of data collection, analysis and interpretation of research results.

**Prerequisite(s):** 1 of ANTH*1150, SOC*1100, SOC*1500

**SOAN*2290 Identities and Cultural Diversity U (3-0) [0.50]**

An examination of the interrelationships among Canadian ethnic, racial and linguistic groups including their locations in the Canadian mosaic.

**Prerequisite(s):** ANTH*1150 or SOC*1100

**SOAN*2400 Introduction to Gender Systems S,F (3-0) [0.50]**

An introduction to the examination of the characteristics of gender relationships both historically and cross-culturally. Amongst the emphases are theoretical approaches to gender analysis, methodologies, case studies and attention to themes such as class and stratification, race and ethnicity, identities and global restructuring as these shape gender dynamics. (Also offered through Distance Education format.)

**Prerequisite(s):** ANTH*1150 or SOC*1100

**SOAN*3070 Qualitative and Observational Methods W (3-0) [0.50]**

Non-quantitative techniques in social research including participant observation, unobtrusive methods, case studies and interviewing.

**Prerequisite(s):** SOAN*2120

**SOAN*3100 Gender Perspectives on Families and Households U (3-0) [0.50]**

This course explores families and households from a gender perspective, using insights from sociology and anthropology.

**Prerequisite(s):** 1 of ANTH*2160, SOAN*2112, SOAN*2400), (SOAN*2120 or WMST*3000)

**Restriction(s):** FRHD*3120

**SOAN*3120 Quantitative Methods F (3-0) [0.50]**

This course introduces basic descriptive and inferential techniques used in quantitative social research. Students will acquire the skills needed to perform basic analyses and to read the research literature. They will also acquire skills in using a standard computer package to perform data analyses. Topics include: data organization, sample description, hypothesis testing and measures of association. Note: Students who have completed any other statistics course(s) should consult with the instructor. In some instances, SOC*3120 may be waived as a departmental requirement.

**Prerequisite(s):** SOAN*2120

**Restriction(s):** Priority Access course. Enrolment may be restricted to particular programs or specializations. See department for more information.

**SOAN*3240 Gender & Global Inequality I F (3-0) [0.50]**

In this course, students will develop their ability to use a gender perspective to study social change in the context of global inequalities. Students will develop their knowledge of the core concepts and theories in Gender and Development (GAD) thinking and practice, while exploring the development process from a critical perspective.

**Prerequisite(s):** 1 of ANTH*2160, IDEV*2010, IDEV*2500, SOC*2080

**SOAN*3250 Social Change in Latin America F (3-0) [0.50]**

This course provides a critical, comparative examination of the social-structural and cultural transformations occurring in Latin America in a context of deepening integration with the global north. Topics to feature prominently may include land reform, depeasantization, out-migration, maquiladoras, informal employment, race and ethnic relations, religiosity and religious identification, and social movements. The particular sub-regional focus may vary.

**Prerequisite(s):** 1 of ANTH*2160, IDEV*2010, IDEV*2500, SOC*2080

**SOAN*3450 Ethnicity and Aging W (3-0) [0.50]**

This course provides an examination of ethnic social structure, ethnicity, and aging. Variations in age related behaviour associated with ethnic groups in Canada will be viewed from a sociological and gerontological perspective. (Offered in odd-numbered years.)

**Prerequisite(s):** (SOAN*2112 or ANTH*2160), SOAN*2120, SOAN*2290

**SOAN*3680 Perspectives on Development F (3-0) [0.50]**

This course examines theories and processes relating to international development and the responses to these by anthropologists and/or sociologists.

**Prerequisite(s):** 1 of ANTH*2160, IDEV*2010, IDEV*2500, SOC*2080

**Restriction(s):** ANTH*3680. Priority Access course. Enrolment may be restricted to particular programs or specializations. See department for more information.

**SOAN*4220 Gender and Change in Rural Canada F (3-0) [0.50]**

This course examines socio-cultural structures affecting historically gendered positions and roles in rural Canada. (Offered in odd-numbered years.)

**Prerequisite(s):** 12.50 credits including (ANTH*2160 or SOC*2080), (SOAN*2120 or WMST*3000)

**SOAN*4230 Gender & Global Inequality II W (3-0) [0.50]**

An in-depth and critical examination of a range of gender issues in the context of development, this course aims to enhance students’ ability to critically analyze development theory and practices using gender analysis. It provides students an opportunity to deepen their understanding of gender issues in a global context, with the aim of further equipping them to participate effectively in gender and development-related research, policy-making, and implementation.

**Prerequisite(s):** 12.50 credits including SOAN*3240, (1 of GEOG*3090, POLS*3180, SOC*3160, WMST*3000) SOAN*2120, WMST*3000)

**Restriction(s):** SOAN*4240

**SOAN*4250 Energy and Society F (3-0) [0.50]**

This seminar addresses the links between social relations and various types of energy including petroleum, other hydrocarbons, nuclear and solar energies. Topics may include corporations, states, international organizations and popular movements.

**Prerequisite(s):** 12.50 credits including SOAN*2120, (1 of ANTH*2160, SOAN*2112, SOC*2080)

**SOAN*4320 Transition from School to Work W (3-0) [0.50]**

This applied course examines the evolving research and models in the transitions from school to work area. There is an evolving literature in this area based, in part, on the successful application of research in the transition from high school to postsecondary education. This 'capstone' course also considers the practical issues involved in making such a move, considering the knowledge, skills, and values needed by university students to succeed in the modern workplace (public, private, and not-for-profit sectors) in Canada. Students will complete an "Action Sociology/Anthropology Project," as well as a "Skills Portfolio," and other work related to their own transition.

**Restriction(s):** Registration in Sociology, Anthropology or Criminal Justice & Public Policy majors in semester 7 or 8.

**SOAN*4500 Community Development U (3-0) [0.50]**

An analysis of approaches to community development defined as planned, change-directed action undertaken by individuals, groups and organizations. The course will include the examination of actual community development practices.

**Prerequisite(s):** (1 of ANTH*2160, IDEV*2010, IDEV*2500, SOC*2080), (GEOG*2210 or SOAN*2120)

**Restriction(s):** SOAN*3300
Statistics

Suggested initial course sequence:

1. For students interested in applied statistics a minimal course sequence is: STAT*2040 or STAT*2100, STAT*2050, STAT*3210, STAT*3240, STAT*3320.
2. Credit may be obtained in only one of STAT*2050 or STAT*2090 and only one of STAT*2040, STAT*2060, STAT*2080, STAT*2100, STAT*2120.
3. Graduate students may be admitted to later parts of a sequence by permission of the department.
4. Students who major or minor in Statistics may not receive credit for the following courses unless taken to satisfy the requirements of another program: ECON*2740, PSYC*2010, PSYC*3320.

STAT*2040 Statistics I S,F,W (3-2) [0.50]

A course stressing the practical methods of Statistics. Topics include: descriptive statistics; univariate models such as binomial, Poisson, uniform and normal; central limit theorem; expected value; the t, F and chi-square models; point and interval estimation; hypothesis testing methods up to two-sample data; simple regression and correlation; ANOVA for CRD and RCBD. Assignments will deal with real data from the natural sciences. Laboratory sessions involve statistical computing and visualization using appropriate statistical software.

Prerequisite(s): 1 of 4U Calculus and Vectors, Advanced Functions and Calculus, OAC Calculus, MATH*1080
Restriction(s): STAT*1000, STAT*2060, STAT*2080, STAT*2100, STAT*2120

STAT*2050 Statistics II S,F,W (3-2) [0.50]

In this course, students will learn how to implement good study design and analyze data from complex studies. This course follows naturally from STAT*2040 and features both previously unseen statistical techniques, as well as studying in greater depth some topics covered in STAT*2040. These topics will include: experiments and observational studies; a review of t-tests and confidence intervals; confounding variables; association and causality; Analysis of Variance (ANOVA); simple and multiple linear regression; binary responses (logistic regression); odds ratios and relative risk; and an introduction to experimental design (including blocked designs and factorial treatment designs). Assignments carried out using modern statistical software will form the basis for mastering the material.

Prerequisite(s): STAT*2040
Restriction(s): BIOL*2250, STAT*2090, STAT*2250

STAT*2060 Statistics for Business Decisions F (3-2) [0.50]

This course is designed for students interested in the application of statistics in a business setting. Topics covered will include the role of statistics in business decisions, organization of data, frequency distributions, probability, normal and sampling distributions, hypothesis testing, linear regression and an introduction to time series, quality control and operations research. (Also offered through Distance Education format.)

Prerequisite(s): (4U mathematics or equivalent) or 0.50 credit in mathematics
Restriction(s): STAT*2040, STAT*2080, STAT*2120 Not available to B.Sc. students.

STAT*2080 Introductory Applied Statistics I F (3-2) [0.50]

The topics covered in this course include: frequency distributions, graphing and tabulation of data; measures of central tendency, variability and association; elementary probability; hypothesis testing and confidence intervals; basic concepts of experimental design; treatment designs; simple linear regression and correlation. Examples come from a variety of disciplines, including family studies, education, marketing, medicine, psychology and sociology.

Prerequisite(s): (4U mathematics or equivalent) or 0.50 credit in mathematics
Restriction(s): STAT*2040, STAT*2060, STAT*2100, STAT*2120 BSC students cannot take this course for credit.

STAT*2090 Introductory Applied Statistics II W (3-2) [0.50]

The topics covered in this course include: analysis of qualitative data; analysis of variance for designed experiments; multiple regression; exposure to non-parametric methods; power and sample size calculations; special topics such as logistic regression. Examples come from a variety of disciplines, including nutrition, family studies, education, marketing, medicine, psychology and sociology.

Prerequisite(s): STAT*2080
Restriction(s): BIOL*2250, STAT*2050, STAT*2250

STAT*2120 Probability and Statistics for Engineers F,W (3-1) [0.50]

The topics covered in this course include: Sample spaces; probability, conditional probability and independence; Bayes' theorem; probability distributions; probability densities; algebra of expected values; descriptive statistics; inferences concerning means, variances, and proportions; curve fitting, the method of least squares and correlation. An introduction to quality control and reliability is provided. This course is recommended for students in the B.Sc.(Eng.) program.

Prerequisite(s): 1 of IPS*1510, MATH*1210, MATH*2080
Restriction(s): STAT*2040, STAT*2060, STAT*2080, STAT*2110

STAT*2220 Biostatistics for Integrative Biology W (3-2) [0.50]

This course introduces students to the design, completion and interpretation of research projects, including identifying categories of research questions, types of data, data gathering methods, efficient graphic and numeric methods to summarize data, standard statistical and hypothesis testing parameter estimation and hypothesis tests and interpreting results in the context of research goals. Statistical concepts underlying practical aspects of biological research will be emphasized. Computer-intensive laboratory sessions will focus on practical data organization, visualization, statistical analysis using software, and interpretation and communication of statistical results. Department of Mathematics and Statistics and Department of Integrative Biology.

Prerequisite(s): BIOL*1070, BIOL*1080
Restriction(s): BIOL*2250, STAT*2040, STAT*2060, STAT*2080, STAT*2120, STAT*2250, Enrollment restricted to the BSC majors in BIOD, ECOL, MFB, WBC, WLB, ZOO

STAT*3100 Introductory Mathematical Statistics I F (3-0) [0.50]

The topics covered in this course include: Probability spaces; discrete and continuous random variables; multivariate distributions; expectations; moments, Chebyshev's inequality, product moments; sums of random variables, generating functions; Gamma, Beta, t and F distributions; central limit theorem; sampling distributions.

Prerequisite(s): 1 of IPS*1510, MATH*1210, MATH*2080), (STAT*2040 or STAT*2120)

STAT*3110 Introductory Mathematical Statistics II W (3-0) [0.50]

Estimation, unbiasedness, Cramer-Rao inequality, consistency, sufficiency, method of moments, maximum likelihood estimation; hypothesis testing, Neyman-Pearson lemma, likelihood ratio test, uniformly most powerful test; linear regression and correlation; non-parametric methods.

Prerequisite(s): STAT*3100

STAT*3210 Experimental Design W (3-0) [0.50]

Basic principles of design: randomization, replication, and local control (blocking); RCBD, Latin square and crossover designs, incomplete block designs, factorial and split-plot experiments, confounding and fractional factorial designs, response surface methodology; linear mixed model computer analysis of the designs; nonparametric methods; Taguchi philosophy.

Prerequisite(s): STAT*2050, STAT*3240
Restriction(s): STAT*4220

STAT*3240 Applied Regression Analysis F (3-2) [0.50]

This course reviews simple linear regression and introduces multiple regression with emphasis on theory of least squares estimation, residual analysis, and model interpretation. Within the multiple regression context, transformations of variables, interactions, model selection techniques, ANOVA, influence diagnostics and multicollinearity will be discussed. Topics may also include Box-Cox transformations, weighted regression, and logistic and Poisson regression. This course is supplemented with computer labs involving interactive data analysis using statistical software.

Prerequisite(s): 1 of IPS*1510, MATH*1210, MATH*2080), (MATH*2150 or MATH*2160, may be taken concurrently), STAT*2050

STAT*3320 Sampling Theory with Applications F (3-0) [0.50]

This course focuses on the design and analysis of survey samples for finite populations; topics covered include: non-probability and probability sampling, simple random sampling, stratified sampling, cluster sampling, systematic sampling, double sampling, two-stage sampling and multi-stage cluster sampling. Expectation, variance estimation procedures and sample size calculations for the above techniques are included.

Prerequisite(s): 1 of IPS*1510, MATH*1210, MATH*2080, (1 of STAT*2050, STAT*3240, STAT*3100)

STAT*3510 Environmental Risk Assessment W (3-0) [0.50]

Contemporary statistical methods for assessing risk are discussed. Topics covered include: dose-response models, survival analysis, relative risk analysis, bioassay, estimating methods for zero risk, trend analysis, survey of models for assessing risk. Case studies are used to illustrate the methods.

Prerequisite(s): 1 of IPS*1500, MATH*1000, MATH*1080, MATH*1200, (1 of BIOL*2250, STAT*2050, STAT*2250)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT*4050</td>
<td>Topics in Applied Statistics I F (3-0) [0.50]</td>
<td></td>
<td>STAT<em>3110, STAT</em>3240</td>
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<tr>
<td>STAT*4060</td>
<td>Topics in Applied Statistics II F (3-0) [0.50]</td>
<td></td>
<td>STAT<em>3110, STAT</em>3240</td>
</tr>
<tr>
<td>STAT*4340</td>
<td>Statistical Inference W (3-0) [0.50]</td>
<td></td>
<td>STAT<em>3110, STAT</em>3240</td>
</tr>
<tr>
<td>STAT*4350</td>
<td>Applied Multivariate Statistical Methods W (3-0)</td>
<td>[0.50]</td>
<td>STAT<em>3110, STAT</em>3240, (MATH<em>2150 or MATH</em>2160)</td>
</tr>
<tr>
<td>STAT*4360</td>
<td>Applied Time Series Analysis F (3-2) [0.50]</td>
<td></td>
<td>STAT*3240 or instructor consent</td>
</tr>
<tr>
<td>STAT*4600</td>
<td>Advanced Research Project in Statistics F,W (0-6)</td>
<td>[1.00]</td>
<td>Approval of a supervisor and the course coordinator</td>
</tr>
</tbody>
</table>

Topics such as statistical computing procedures, quality control, bioassay, survival analysis and introductory stochastic processes will be covered. This course is intended for statistics students and interested students from other disciplines who have appropriate previous courses in statistics. Information on particular offerings will be available at the beginning of each academic year. (Offered in odd-numbered years.)

Same as for STAT*4050. (Offered in even-numbered years.)

This course reviews and extends the theory of estimation introduced in STAT*3110. Topics including point estimation, interval estimation, hypothesis testing and decision theory will be presented from both the frequentist and likelihood-based perspectives. Foundational issues concerning the frequentist and Bayesian paradigms will also be discussed.

This course introduces the multivariate normal, and Wishart and Hotelling’s T-square distributions. Topics covered include: statistical inference on the mean vector, canonical correlation, multivariate analysis of variance and covariance, multivariate regression, principal components analysis, and factor analysis. Topics will be illustrated using examples from various disciplines.

This course will investigate the nature of stationary stochastic processes from the spectral and time domain points of view. Aspects of parameter estimation and prediction in a computationally intensive environment will be the presentation style. The methods developed in this course will have applicability in many sciences such as engineering, environmental sciences, geography, soil sciences, and life sciences.

Each student in this course will undertake an individual research project in some area of statistics, under the supervision of a faculty member. A written report and a public presentation of the project will be required.

Restriction(s): Approval of a supervisor and the course coordinator.


Studio Art

School of Fine Art and Music

Admission to all Studio Art courses is based on the university’s policy with regard to Priority Access Courses. Admission to all Studio courses at the 3000-level and above is restricted to students who:

1. are currently registered in the Art History or Studio Art Specializations of the Bachelor of Arts Program;
2. have an average of 70% in all ARTH and SART course attempts;
3. have completed both ANTH*1220, ANTH*1520, SART*1050 and SART*1060.

Studio supplies: The majority of the cost of supplies must be borne by the student. In order to permit the University to subsidize this cost and to allow for savings through discount buying, some materials are obtained through the School of Fine Art and Music by payment of a lab fee. The amount of the fee is established for each semester prior to registration. Note: Due to limited faculty resources and facilities, enrolment in these courses may be restricted to Studio Art majors or minors.

SART*1050 Foundation Studio F,W (2-4) [0.50]
This course provides a foundation in the technical and theoretical aspects of contemporary two-dimensional media. Through a combination of lectures, studio projects and guest speakers the students will explore perceptual, conceptual and topical dimensions of art making practices.
Restriction(s): Registration in semesters one, two, three or four. May not register in SART*1050 in same term. This is a Priority Access course. Enrolment may be restricted to particular programs or specializations during certain periods. Please see the departmental website for more information.

SART*1060 Core Studio F,W (2-4) [0.50]
This course provides a foundation in the technical and theoretical aspects of contemporary three-dimensional and time-based media. Through a combination of lectures, studio projects and guest speakers, students will explore perceptual, conceptual and topical dimensions of contemporary art making practices.
Restriction(s): Registration in semesters one, two, three or four. May not register in SART*1050 in same term. This is a Priority Access course. Enrolment may be restricted to particular programs or specializations during certain periods. Please see the departmental website for more information.

SART*1150 Contemporary Artistic Practice S,W (3-0) [0.50]
This course, which uses a web-based platform, is an introduction to contemporary art and artists. Lectures will be augmented by studio art assignments and online discussions in order to develop an understanding of material covered in the course. (Offered through Distance Education only.)

SART*2090 Drawing I F,W (0-6) [0.50]
This course is an introduction to the basic concepts, techniques and media of drawing, through disciplined observational and imaginative study.
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060; (ARTH*1220 and SART*1050 can be taken as co-requisites.)

SART*2200 Painting I F,W (0-6) [0.50]
This course introduces various technical and aesthetic issues of painting, with an emphasis placed on representational strategies. Diverse approaches will be investigated through specific studio assignments in acrylic and oil-based media on various painting supports. Prior or concurrent Drawing classes are recommended.
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060; (ARTH*1220 and SART*1050 can be taken as co-requisites.)

SART*2300 Sculpture I F,W (0-6) [0.50]
This course is an introduction to contemporary sculptural concerns through projects and readings. Students will be actively engaged in exploring a variety of materials and ideas including modular construction, casting, and scale exercises.
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060; (ARTH*1220 and SART*1050 can be taken as co-requisites.)

SART*2400 Introductory Printmaking I F (0-6) [0.50]
This course is an introduction to the traditional printmaking media of intaglio and relief printing.
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060; (ARTH*1220 and SART*1050 can be taken as co-requisites.)

SART*2470 Introductory Printmaking II W (0-6) [0.50]
This course is an introduction to the techniques of the traditional printmaking media of lithography and silkscreen.
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060; (ARTH*1220 and SART*1060 can be taken as co-requisites.)

SART*2410 Intaglio F (0-6) [0.50]
This is an in-depth investigation into aspects of intaglio printmaking.
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060, SART*2300; Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*2450 Lithography F (0-6) [0.50]
This is an in-depth exploration of the art of lithography.
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060, SART*2400 or SART*2470; Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.
SART*3470 Photo-Printmaking W (0-6) [0.50]
This course investigates the uses of photographic resources in image making to produce photo etchings, silk-screens, and lithographs, as well as the use of computer graphics to augment the design process. (Offered in odd-numbered years.)
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060, (SART*2460 or SART*2470)
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*3480 Web Development and Design F (0-6) [0.50]
This course is an in-depth study of website design using professional web authoring software. Students will design and create a website which explores a contemporary issue in their art practice.
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060, (SART*2700 or SART*2710)
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*3600 Digital & Non-Silver Photography F (0-6) [0.50]
This course combines non-silver, photo-chemical and digital photographic methods as an expansion of photographic concepts introduced in SART*2610. These techniques will serve as the basis for aesthetic investigation into the formal, conceptual, technical and theoretical issues related to historic and new technologies in photographic practice.
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060, SART*2610
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*3750 Photography II F,W (0-6) [0.50]
This course is a further exploration of expressive, formal and technical aspects of photography.
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060, SART*2610
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*3770 Extended Practices II F,W (0-6) [0.50]
Thematically based projects encourage students to choose the most appropriate medium or combination of media for each assignment. Students may pursue and perfect one medium or take a more interdisciplinary approach (artists multiples, installation, performance, video, alternative venues, relational art or a combination of approaches).
Prerequisite(s): ARTH*1220, ARTH*1520, SART*1050, SART*1060, SART*2800
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*3800 Experiential Learning I F,W (0-6) [0.50]
This is an independent study course based on either Studio Art-related voluntary or paid practical experience. Evaluation will be based on assignments related to work duties. Written proposals, signed by the instructor, must be submitted to the Director for the School for approval by the last day of course selection in the Fall (for Winter) or Winter (for the following Fall).
Prerequisite(s): 3.00 credits in Studio Art
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts. Instructor consent required.

SART*3900 Experiential Learning II F,W (0-6) [0.50]
This course provides students with an opportunity to continue the workplace or activity begun in SART*3800 in greater depth, or to experience a new work/study situation. Evaluation will be based on assignments related to work duties. Written proposals, signed by the instructor, must be submitted to the Director for the School for approval by the last day of course selection in the Fall (for Winter) or Winter (for the following Fall) semester.
Prerequisite(s): SART*3800 and 3.50 credits in Studio Art
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations with an average of 80% in all ARTH and SART course attempts. Instructor consent required.

SART*4090 Drawing III F (0-6) [0.50]
This course will study the technical development of observational drawing as well as the experimental and intentional development of drawing as a contemporary artform.
Prerequisite(s): SART*3090
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*4130 Drawing IV W (0-6) [1.00]
This is an advanced course which explores drawing through individually oriented production supported by critical study of diverse contemporary approaches to the medium.
Prerequisite(s): SART*4090

SART*4200 Painting III F (0-6) [0.50]
A further extension of the work begun in SART*2200 and SART*3200. While the various technical and aesthetic issues will continue to be investigated through the discipline of observational painting there will be more emphasis on the critical issues relevant to contemporary painting and allowance for personal expression through both abstract and representational modes.
Prerequisite(s): SART*3200,
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*4230 Special Topics in Painting W (0-6) [0.50]
An advanced course which focuses on a specific theme, subject, or technique in painting. Topics may include the figure and narrative in painting, the landscape in contemporary painting, or New Abstraction.
Prerequisite(s): SART*3200
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*4240 Painting IV W (0-6) [1.00]
This course offers advanced investigations into the theory and practice of painting, with strong emphasis on the development of a critically informed and engaged individual practice.
Prerequisite(s): SART*4200 or SART*4230
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*4300 Sculpture III F,W (0-6) [0.50]
Contemporary issues in sculpture will be addressed through at least 2 studio projects including 1 site-response installation, and an independent work in close consultation with the instructor. Interdisciplinary projects based on the students' own research are strongly encouraged.
Prerequisite(s): SART*3300
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*4330 Senior Sculpture F,W (0-6) [1.00]
In close consultation with the instructor, the student will produce a body of independent sculpture with attention to clarity of personal statement, originality, and professionalism. Interdisciplinary projects based on the students' own research are strongly encouraged.
Prerequisite(s): SART*4300
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

SART*4410 Experimental Printmaking W (0-6) [0.50]
This course will further investigate traditional and photo based printing media. Computer graphics will be used to augment the design process.
Prerequisite(s): 3 of SART*2460, SART*2470, SART*3410, SART*3450, SART*3470
Restriction(s): Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.
**SART*4470 Advanced Printmaking W (0-6) [1.00]**
This course is an in-depth study of various printmaking media including the use of computer graphics and advanced manipulation of photo based images to create a personal portfolio of thematically coherent prints. Seminar presentation is required.

**Prerequisite(s):** SART*4410  
**Restriction(s):** Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

**SART*4660 Topics in Extended Practices F (0-6) [0.50]**
For this advanced course, the specific theme, subject, or technique in extended practices will vary according to the instructor or instructors and will consist of topics not otherwise available in the curriculum. Topics may include Performance Art, Installation, Interactive Art, Relational Art, Alternative Venues and Artists Multiples.

**Prerequisite(s):** SART*3770  
**Restriction(s):** Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

**SART*4770 Specialized Studio Practice II W (0-6) [1.50]**
This course is intended to assist in the preparation for graduate school and professional activities. It is an advanced and specialized course in individual studio work, which affords students opportunities for interdisciplinary and collaborative approaches and oversees the development of independent study strategies. Students will research and complete a major self-directed project. This course is not intended for all Honours students. This course is intended to assist in the preparation for graduate school and professional activities in the Arts.

**Prerequisite(s):** A minimum of 2 courses at the 4000-level in Studio Arts, a minimum cumulative average of at least 80% in SART courses and ARTH courses.  
**Restriction(s):** Permission of the Instructor or Director of the School.

**SART*4800 Special Topics in Sculpture W (0-6) [0.50]**
This is an advanced course which focuses on a specific theme, subject, or technique in sculpture. Subject matter will vary according to the instructor or instructors and will consist of topics not otherwise available in the curriculum. Topics may include, for example, Kinetic Media, Public Art, Mold Making, or Figuration and Installation. Normally, two different topics will be offered each year (see SART*4870).

**Prerequisite(s):** SART*3300  
**Restriction(s):** Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

**SART*4810 Extended Practices III W (0-6) [0.50]**
Contemporary issues in interdisciplinary art production will be addressed through at least two thematic projects and one self-directed work based on the students' own research in close consultation with the instructor. Students may choose to pursue and perfect one medium, or take a more interdisciplinary approach to art production.

**Prerequisite(s):** 1 of SART*3770, SART*4660, SART*4670  
**Restriction(s):** Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

**SART*4870 Special Topics in Sculpture W (0-6) [0.50]**
This is an advanced course which focuses on a specific theme, subject, or technique in sculpture. Subject matter will vary according to the instructor or instructors and will consist of topics not otherwise available in the curriculum. Topics may include, for example, Kinetic Media, Public Art, Mold Making, or Figuration and Installation. Normally, two different topics will be offered each year (see SART*4800).

**Prerequisite(s):** SART*3300  
**Restriction(s):** Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

**SART*4880 Extended Practices IV W (0-6) [1.00]**
In close consultation with the instructor, students produce two self-directed projects based on their own research. Presentations, grants, writing and composing artist statements will provide students the opportunity to develop personal conviction and a professional approach to Studio Art practice.

**Prerequisite(s):** 1 of SART*4660, SART*4670, SART*4810  
**Restriction(s):** Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.

**SART*4890 Interactive Multimedia W (0-6) [1.00]**
This course explores the online multimedia world of the Internet. Students will use professional authoring and imaging software to create multimedia presentations which explore contemporary art issues. Seminars will examine cultural and theoretical issues brought about by the spread of digital communication through the Internet.

**Prerequisite(s):** SART*3480  
**Restriction(s):** Registration is limited to students registered in the Art History or Studio Art specializations of the Bachelor of Arts program with an average of 70% in all ARTH and SART course attempts.
Theatre Studies

School of English and Theatre Studies

NOTES: Admission to the following courses is not guaranteed, and is by audition, submission of a portfolio and/or interview only:

THST*3110 [0.50] Acting II
THST*3120 [0.50] Acting III
THST*3410 [0.50] Special Studies in Production I
THST*3420 [0.50] Special Studies in Production II
THST*3600 [0.50] Directed Readings and Special Independent Studies
THST*3620 [0.50] Special Studies Seminar
THST*3630 [0.50] Special Studies in Studio Practice
THST*4090 [0.50] Directing
THST*4250 [0.50] Honours Project in Theatrical Production
THST*4650 [0.50] Honours Essay

For times and dates of auditions, interviews, or the deadline for applications, students should consult the School. All students applying for entry to these courses must obtain the signature of the Theatre Studies Program advisor or the Director, who will admit students only after consultation with the instructor.

Iterations of some courses may include field trips for which there are supplemental fees.

The Theatre Studies program has a particular interest in the drama and theatre of Canada.

Course offerings will reflect this concentration where appropriate.

THST*1040 Introduction to Theatre Studies F,W (3-0) [0.50]
This course introduces students to the disciplines and subject areas that constitute Theatre Studies at the university level, including the work of playwrights, directors, designers, actors and technicians in creating productions, and the scholarly study of theatrical history, theory and dramatic literature. Attendance at a number of performances is required, since these performances are among the “texts” for the course.

Equate(s): DRMA*1000

THST*1150 Seminar in Theatre Studies W (3-0) [0.50]
A focused study of a selected topic in a small-group learning experience. Students will be introduced to research methodologies and offered opportunities to strengthen their writing and speaking skills. Variable course content. Consult the School’s website for current topics.

Restriction(s): Restricted to students who are declared majors in Theatre Studies.

THST*1200 The Languages of Media F (3-2) [0.50]
This introductory course examines film, radio, television, and digital media, focusing on the codes and conventions used by different media to create relationships between structure and content, to make meaning.

THST*2010 Theatre Historical Studies F (3-0) [0.50]
This course will introduce students to the historical study of theatre by surveying developments in Western theatre from the classical period to twentieth-century modernism. Building on the historicity of Western theatre, the course also considers the historical conditions that have produced contemporary theatre practice in Canada.

Prerequisite(s): THST*1040

Equate(s): DRMA*2300 , DRMA*3180

THST*2080 Acting I F,W (2-3) [0.50]
This is a studio course for students applying classroom theory to acting problems.

Prerequisite(s): THST*1040

Equate(s): DRMA*2080

THST*2120 Dramaturgy and Playwriting W (3-0) [0.50]
Students will study how plays are made. The course includes analysis of theatrical texts and exercises in scripting.

Prerequisite(s): THST*1040

Equate(s): DRMA*1050

THST*2230 Intro to Technical Theatre F,W (2-3) [0.50]
An introduction to the theory and practice of theatrical production, including sets, costumes, lighting, sound, props and technical drawing. Students are expected to serve on technical crews on some evenings and weekends during School productions.

Prerequisite(s): DRMA*1000 or THST*1040

Equate(s): DRMA*2220

THST*2240 Introduction to Theatre Design W (2-3) [0.50]
Students will be introduced to theories, techniques and materials in five areas of theatrical design: sets, props, lighting, sound, and costume. The course also considers the history of design for the theatre, attending to the relationship between design and other forms of cultural expression.

Prerequisite(s): DRMA*1000 or THST*1040

Equate(s): DRMA*2220

THST*2450 Approaches to Media Studies W (3-0) [0.50]
This course examines major approaches to the study of communication, including cybernetic, anthropological, semiotic and other perspectives, focusing on how people transmit information and construct meaning. (Offered in even-numbered years.)

Prerequisite(s): THST*1200

THST*2500 Contemporary Cinema W (2-3) [0.50]
The course is designed to give the student knowledge and understanding of contemporary cinematic expression.

Equate(s): DRMA*2500

THST*2650 History of Communication F (3-0) [0.50]
This course is organized around several revolutions in communication and technology: the evolution of human language; the development of writing systems and literacy; the invention and spread of printing and typography; and the beginnings of electronic communication and the digital revolution. (Offered in odd-numbered years.)

Prerequisite(s): THST*1200

THST*3080 Acting Studio F,W (2-3) [0.50]
A studio course in acting that will address particular issues and techniques, and may conclude with a small-scale production.

Prerequisite(s): 10 credits

Equate(s): DRMA*2400

Restriction(s): Students must be enrolled as a Major or Minor or area of concentration in Theatre Studies or B.A.Sc. Child, Youth and Family.

THST*3100 Screenwriting W (3-0) [0.50]
Students will be introduced to and be assessed on the various phases of the process of developing a film script, including developing a one-minute screenplay without dialogue; a five minute screenplay with dialogue; a strategy for “pitching” an idea to a producer; and the final script. Students will also conduct research on film scholarship and film reception, to contextualize their own writing. (Offered in even-numbered years.)

Prerequisite(s): 1.00 credits from THST*1200, THST*2080, THST*2120, THST*2240

Restriction(s): DRMA*3620 , THST*3620

THST*3110 Acting II F,W (3-0) [0.50]
A continuation of THST*2080. Students will perform in a public production. Admission is by audition only.

Prerequisite(s): THST*2080

Equate(s): DRMA*3110

Restriction(s): Instructor consent required.

THST*3120 Acting III F,W (2-3) [0.50]
A continuation of THST*3110. Students will perform in a public production. Admission is by audition only.

Prerequisite(s): THST*3110

Equate(s): DRMA*3120

Restriction(s): Instructor consent required.

THST*3220 Technical Production I F,W (2-3) [0.50]
This course offers students advanced engagement with the theory and application of theatrical crafts, and includes work in a technical capacity on a School production.

Prerequisite(s): DRMA*2220 or THST*2230

Equate(s): DRMA*3220

THST*3220 Technical Production II F,W (2-3) [0.50]
A continuation of THST*3220, focusing on the theory and application of theatrical crafts, and including work in a technical capacity on a School production. Students will normally work in different capacities in THST*3220 and THST*3230.

Prerequisite(s): THST*3220

Equate(s): DRMA*3230

THST*3240 Theatrical Organization F (3-0) [0.50]
A study of various models of theatrical organization such as theatrical funding, board and management structures, production management, technical direction, and stage management, together with their implications for theatrical production and interpretation. (Offered in even-numbered years.)

Prerequisite(s): THST*2010, THST*2230

Equate(s): DRMA*3240

2012-2013 Undergraduate Calendar

Last Revision: Oct. 19, 2012
THST*3260 Shakespeare: Text & Performance S (3-0) [0.50]
The course offers an analysis of a selection of plays by William Shakespeare. In addition to textual analysis, the students will be introduced to the stage history of the plays being considered, with attention to conditions of production. The course normally will include consideration of plays by Shakespeare which are currently in production at the Stratford Festival; students will have the opportunity to see the plays in performance for which an additional fee may be charged. The course is taught as an intensive seminar in conjunction with the Stratford Festival and is offered in Stratford, Ontario.
Prerequisite(s): 2.50 credits in Theatre Studies including THST*2010 or 1.00 credits in English.

THST*3280 Theatrical Space W (3-0) [0.50]
This course is a study of theatrical space as it shapes performance, reception, social value and cultural meanings. It explores the nature of performance spaces and the relationship between performer and audience, and considers theoretical approaches to the problem of theatrical space, including analyses of cultural location, aesthetic spatiality, public space and kinaesthetic space. The course offers an historical overview of various theatre and non-theatre venues for performance from the perspectives of actors, directors, designers, technicians and audiences. (Offered in even-numbered years.)
Prerequisite(s): THST*2010, THST*2230

THST*3300 Sexuality and The Stage F (3-0) [0.50]
This course focuses on issues relating to the staging of sexuality. The course will theorize and historicize the representation of sexual diversity. Variable content course. Topics may include, for example, the theatrical staging of gays, lesbians, bisexuals, and transgendered people; queer theatre; and the privileging of heterosexuality on the stage. (Offered in even-numbered years.)
Prerequisite(s): THST*2010 or 1.00 credits in English

THST*3340 Voice and Text in Performance S (0-6) [0.50]
Within a studio context, students are introduced to techniques of voice, particularly in relation to performing verse. The course is taught as an intensive lab in conjunction with the Stratford Festival and is offered in Stratford, Ontario. The course may involve a lab fee. Admission to the course is by application to the School of English and Theatre Studies. Further information is available from the School.
Prerequisite(s): 2.50 credits in Theatre Studies including THST*3080 or THST*3110
Co-requisite(s): THST*3260

THST*3360 Political Intervention Theatre W (3-0) [0.50]
This course examines major theories, practices and textualities of radical theatre interventions in politics in the twentieth- and twenty-first centuries. It traces the historical development and genealogies of interventionist processes, with particular attention to the transnational circulation of practices and methods. (Offered in even-numbered years.)
Prerequisite(s): THST*2010 or 1.00 credits in English

THST*3410 Special Studies in Production I, F,W (2-3) [0.50]
Students will serve in such capacities as stage managers, assistant stage managers, assistant directors, assistant designers, dramaturges, producers, or publicists on School productions, and will study the functions of these roles in theatrical production. Admission is by application to the School.
Prerequisite(s): THST*3220, (1 of THST*2120, THST*3240, THST*3430, THST*3460, THST*3480, THST*3700)
Equate(s): DRMA*3410
Restriction(s): Instructor consent required.

THST*3420 Special Studies in Production II, F,W (2-3) [0.50]
A continuation of THST*3410. Students will normally work in different capacities in THST*3410 and THST*3420. Admission is by application to the School.
Prerequisite(s): THST*3410
Equate(s): DRMA*3420
Restriction(s): Instructor consent required.

THST*3430 Theatrical Design: Sets & Props F (2-3) [0.50]
This course provides a study of the history, theory, and practice of theatrical design, with focus on the principles of set and prop design. (Offered in even-numbered years.)
Prerequisite(s): DRMA*2220 or (THST*2230, THST*2240)
Equate(s): DRMA*3430

THST*3460 Costume W (2-3) [0.50]
This course studies the art of costume design for the theatre, placing the discipline in historical and theoretical contexts while exploring the practice and art of costume design. The course covers the techniques, materials and language necessary to the costume designer's craft and role in the production of a work of theatre. At the instructor's discretion, the course may include the design of mask, makeup, wigs and accessories. (Offered in odd-numbered years.)
Prerequisite(s): THST*2230, THST*2240
Restriction(s): DRMA*3440

THST*3480 Lighting, Sound, Theatre Media F (2-3) [0.50]
The course studies theatrical lighting, sound, and media from the perspective of the designer. Through a combination of class instruction, demonstration and practical lab projects, the student will follow the process for the design of light, sound and media (theory and practice), from the first reading of a script through all of the stages that lead to the creation of a design. Special attention is given to analyzing scripts for visual and aural images. (Offered in odd-numbered years.)
Prerequisite(s): THST*2230, THST*2240
Restriction(s): DRMA*3440

THST*3530 Canadian Film F (2-3) [0.50]
This course is designed to give the student knowledge and understanding of Canadian film and film makers. (Offered in even-numbered years.)
Prerequisite(s): THST*1200 or DRMA*1500
Equate(s): DRMA*3530

THST*3540 World Theatre Cultures U (3-0) [0.50]
This course presents a focused study of theatrical traditions and dramatic practices (largely) outside European traditions. Variable content course. Consult the School's website for current topics.
Prerequisite(s): (THST*2010, THST*2120) or 1.50 credits in English

THST*3550 Theories of Drama and Theatre W (3-0) [0.50]
This course covers selected theoretical approaches to the study of drama and theatre.
Prerequisite(s): THST*2010, (1 or THST*2080, THST*2120, THST*2240)
Equate(s): DRMA*3550

THST*3600 Directed Readings and Special Independent Studies U (3-0) [0.50]
Independent study based upon bibliographies established in consultation with the instructor. An essay will normally constitute the written requirement for the course. Tutoring and/or consultation will be arranged, depending on the topic or materials for study. Special studies may also be arranged in the practical aspects of the theatre, with appropriate assignments, not leading to a production. Projects for this course are subject to the approval of the School, and must be submitted to the Director, on forms provided by the School, no later than the last day of classes in the semester prior to enrolment in the course.
Prerequisite(s): 3.00 credits in Theatre Studies including THST*2010, THST*2230, (1 of THST*2080, THST*2120, THST*2240)
Equate(s): DRMA*3600
Restriction(s): Instructor consent required.

THST*3620 Special Studies Seminar U (3-0) [0.50]
This seminar course provides for intensive study of a specific aspect of drama and/or theatre.
Prerequisite(s): 3.00 credits in Theatre Studies.
Equate(s): DRMA*3620
Restriction(s): Instructor consent required.

THST*3630 Special Studies in Studio Practice U (3-0) [0.50]
The course provides an intensive exploration of one aspect of studio practice: playwriting, acting, design or technical theatre.
Prerequisite(s): 3.00 credits in Theatre Studies including one of the following, as appropriate to the topic of the course: THST*2080, THST*2120, THST*2230, THST*2240.
Equate(s): DRMA*3630
Restriction(s): Instructor consent required.

THST*3650 Theatre Historical Studies Seminar F (3-0) [0.50]
This seminar course investigates a topic in theatre history. The course will further develop students' research skills and expertise in writing and speaking about scholarly materials in the discipline. Variable content course.
Prerequisite(s): THST*2010
Equate(s): DRMA*3650
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Equate(s)</th>
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</thead>
<tbody>
<tr>
<td>THST*3660</td>
<td>Dramatic Literature and Theory Seminar W (3-0)</td>
<td>[0.50] This seminar course investigates an area of dramatic literature. The course will develop students' research skills and writing and speaking about scholarly materials in the discipline. Variable course content.</td>
<td>THST<em>2010 or DRMA</em>2300</td>
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<tr>
<td>THST*3700</td>
<td>Fundamentals of Directing W (2-3)</td>
<td>[0.50] This course is a study of the basic theories of directing, complemented by practical in-class directing exercises.</td>
<td>(DRMA<em>1050 or THST</em>2120), THST*2080</td>
<td>DRMA*3700</td>
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<tr>
<td>THST*3850</td>
<td>Canadian Drama and Theatre F (3-0)</td>
<td>[0.50] This course is a study of Canadian plays in their historical, cultural, and theatrical contexts.</td>
<td>(DRMA<em>2300 or THST</em>2010) or 1.00 credits in English.</td>
<td>DRMA*3850</td>
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<tr>
<td>THST*3950</td>
<td>Drama in London U (2-4)</td>
<td>[0.50] A course designed for students taking the London Semester consisting of a study of theatre events in London, through attending performances, reading texts and meeting for weekly seminars.</td>
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<td>DRMA*3950</td>
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<td>Permission of the Co-ordinator of the London Semester.</td>
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<tr>
<td>THST*4090</td>
<td>Directing F (3-2)</td>
<td>[0.50] In this course students will have the opportunity to apply the fundamentals of directing through a specific directorial assignment.</td>
<td>THST*3700</td>
<td>14.00 credits. Restricted to students in Theatre Studies with a 70% average in all course attempts in Theatre Studies.</td>
</tr>
<tr>
<td>THST*4250</td>
<td>Honours Project in Theatrical Production F.W</td>
<td>[0.50] The completion, under direction, of a project in acting, directing, dramaturgy, design or technical theatre.</td>
<td>THST<em>2010, THST</em>2230, (1 of DRMA<em>3440, THST</em>3110, THST<em>3220, THST</em>3430, THST<em>3480, THST</em>3700). Admission is by application to the School.</td>
<td>DRMA*4250</td>
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<td>Consent of both the instructor and the School are required.</td>
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<tr>
<td>THST*4280</td>
<td>Ensemble Project W (6-9)</td>
<td>[1.50] Students will engage throughout the semester with the processes of forming a theatre company, theorizing its organizational structure, exploring fundraising and publicity exercises, casting, designing, dramaturging, directing, and mounting a production, and engaging in post-production analysis that assesses the social and theatrical impact of the decisions taken and procedures employed.</td>
<td>THST<em>1040, THST</em>2010, THST<em>2230, (2 of THST</em>2080, THST<em>2120, THST</em>2240), THST<em>3550, THST</em>3850, (THST<em>3650 or THST</em>3660)</td>
<td>Restricted to majors in Theatre Studies who have completed a minimum of 14.00 credits.</td>
</tr>
<tr>
<td>THST*4320</td>
<td>Seminar in Dramatic Literature and Theory F</td>
<td>[0.50] An in depth study of one aspect of dramatic literature written before 1900.</td>
<td>(THST<em>3650 or THST</em>3660), THST*3850</td>
<td>DRMA*4320</td>
</tr>
<tr>
<td>THST*4330</td>
<td>Seminar in Canadian Drama and Theatre W</td>
<td>[0.50] An in depth study of one aspect of Canadian drama and theatre.</td>
<td>(THST<em>3650 or THST</em>3660), THST<em>3550, THST</em>3850</td>
<td>DRMA*4330</td>
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<tr>
<td>THST*4340</td>
<td>Playwriting F (3-0)</td>
<td>[0.50] This course is a study of the theory and practice of playwriting.</td>
<td>(THST<em>3650 or THST</em>3660), THST*3850</td>
<td>DRMA*4340</td>
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<tr>
<td>THST*4650</td>
<td>Honours Essay</td>
<td>U (3-0) [0.50] The completion, under direction, of a scholarly essay in the study of drama and/or theatre. Admission is by application to the instructor.</td>
<td>(THST<em>3650 or THST</em>3660), THST<em>3550, THST</em>3850</td>
<td>DRMA*4650</td>
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<td>Instructor consent required.</td>
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### TOX*2000 Principles of Toxicology F (3-0) [0.50]
This course will establish the scientific principles underlying the toxic actions of various substances and will introduce the various challenges within the field of toxicology. The chemical nature of injurious substances, their uptake and metabolism by non-target organisms, and their mode of toxic action will be studied in addition to the methods used in safety evaluations and risk assessment. Department of Biomedical Sciences.

**Prerequisite(s):** CHEM*1050, (1 of IPS*1500, MATH*1080, MATH*1200), (1 of BIOL*1040, BIOL*1070, BIOL*1080, BIOL*1090)

### TOX*3300 Analytical Toxicology F (3-3) [0.50]
A course in trace analysis designed for students in toxicology and related programs. Analytical techniques of value in analyzing samples of toxicological importance will be presented with emphasis also on sample collection and preparation prior to analysis. Department of Chemistry.

**Prerequisite(s):** CHEM*2480, BIOC*2580, TOX*2000 (TOX*2000 may be taken concurrently)

**Restriction(s):** CHEM*3430, CHEM*3450 Priority Access course. Enrolment may be restricted to particular programs or specializations. See department for more information.

### TOX*3360 Environmental Chemistry and Toxicology S,W (3-0) [0.50]
This course examines the chemistry of the natural environment and the influence of pollutants upon the environment. Topics will include methods of introduction of pollutants to, and removal of pollutants from, the environment. Department of Chemistry. (Also listed as CHEM*3360.) (Also offered in Distance Education format.)

**Prerequisite(s):** CHEM*1050

**Equate(s):** CHEM*3360

### TOX*4000 Medical Toxicology F (4-0) [0.50]
This course will focus on the toxicology of mammalian body systems with emphasis on dose-response, mechanisms and the sites of action of major groups of chemical toxicants and biological toxins. The course is designed for students majoring in Bio-Medical Sciences and Toxicology. Department of Biomedical Sciences.

**Prerequisite(s):** BIOM*3090

### TOX*4100 Toxicological Pathology W (2-2) [0.50]
Evaluation of the pathologic responses of cells and tissues to toxic compounds. The course is designed for students majoring in toxicology. Department of Pathobiology.

**Prerequisite(s):** PATH*3610 (or equivalent)

### TOX*4200 Topics in Toxicology W (3-0) [0.50]
Topics in toxicology will consist of oral and written presentations by students, faculty members, and guest lecturers. The emphasis will be on the broad integrative aspects of toxicology with particular reference to the whole organism and higher levels of natural systems; risk assessment and regulatory toxicology. Departments of Biomedical Sciences and School of Environmental Sciences.

**Prerequisite(s):** TOX*2000, TOX*3300

**Restriction(s):** Restricted to students in BSCH.TOX, BSCH.TOX.C

### TOX*4590 Biochemical Toxicology F (3-0) [0.50]
This course will focus on the biotransformation of drugs, carcinogens, and other toxicants, including consideration of human health implications of these metabolic processes. The enzymes catalyzing these reactions will be discussed in detail. Department of Chemistry.

**Prerequisite(s):** (1 of BIOC*3570, CHEM*3430, TOX*3300), BIOC*3560, (MBG*2020 or MBG*2040)

### TOX*4900 Toxicology Research Project I S,F,W (0-9) [1.00]
This research project in toxicology is designed to provide senior undergraduate students with an opportunity to conduct research in an area of toxicology. Students should note that most projects are of two semesters' duration, and should plan their studies with the expectation that they will also register in TOX*4910 in a subsequent semester. Students must make arrangements with both the faculty supervisor and the course coordinator at least one semester in advance. The project supervisor should normally be a faculty member from the Toxicology Program.

**Prerequisite(s):** TOX*3300

**Restriction(s):** Normally a minimum cumulative average of 70% is required. Instructor consent required.
VETERINARY MEDICINE

Department of Biomedical Sciences
Department of Clinical Studies
Department of Pathobiology
Department of Population Medicine

The hours in courses below indicate the approximate equivalent number of semester course hours.

These courses will be available only to students registered in the D.V.M. program.

VETM*3000 Veterinary Biochemistry P1 (2-1) [0.50]
This course integrates the biochemistry of the healthy animal with a study of some abnormalities in metabolic pathways. The emphasis is on understanding the physiological and biochemical mechanisms and regulatory processes within cells, tissues and organs, as a basis for later courses on diseases. Department of Biomedical Sciences.
Co-requisite(s): All Phase 1 courses.

VETM*3070 Veterinary Anatomy P1 (2-6) [2.00]
An introduction to comparative, topographical anatomy, primarily of 4 domestic mammals: cat, dog, horse and cow. Full dissections of these species are related to the living animal and to imaging, to form the basis for future studies in clinical morphology. Students are first introduced to the major anatomical systems and then to the regions in detail: thorax, abdomen, pelvis and perineum, limbs, and head and neck. Active learning, problem solving, communication skills and the integration of material across concurrent courses are fostered. Department of Biomedical Sciences.

Co-requisite(s): All Phase 1 courses.

VETM*3080 Veterinary Physiology P1 (3-3) [1.50]
The course describes the physiological processes carried out by the major tissues and organ systems, and the regulatory mechanisms that affect tissue and organ function. Topics dealt with in the course include the following: the cellular and chemical constituents of blood, blood coagulation and haemostasis, the function of the immune system, resistance to infectious agents and the principles of immunoprophylaxis, cardiac function, cardiovascular haemodynamics, blood pressure, peripheral and regional circulation of blood, the lymph circulation, the structure and function of the mammalian nervous system and organs associated with special senses, the functions of the digestive tract, lungs and kidney thermoregulation and water, electrolyte and acid-base balance. The homostatic features and species variation of the tissue organ systems will be emphasized. Departments of Biomedical Sciences and Pathobiology.

Co-requisite(s): All Phase 1 courses.

VETM*3120 Veterinary Histology P1 (3-3) [0.75]
A lecture and laboratory course emphasizing the microscopic organization of the tissues and organs of domestic animals in various physiological states. Correlations between morphology and function of various cells and tissues comprising the organ systems will be discussed. Department of Biomedical Sciences.

Co-requisite(s): All Phase 1 courses.

VETM*3210 Art of Veterinary Medicine I P1 (V-V) [0.50]
In a series of integrated modules, this course will assist students in increasing their self-awareness and comprehension of a range of legal, professional and ethical values and behaviours that are essential and normal components of veterinary medicine. Emphasis will be placed on understanding, evaluating and improving interpersonal relations and oral and written communication skills. The ethical principles that underlie veterinary medicine will be explored in depth. The course will also assist students in understanding their position in the developing history of veterinary medicine and inform them of emerging trends. Issues related to professional development, how other species interact with humans, and the client/patient/veterinarian triad will be introduced. The application of these learned skills in the resolution of problems will be introduced. OVC Dean's Office, Department of Population Medicine and the Veterinary Teaching Hospital.

Co-requisite(s): All Phase 1 courses.

VETM*3220 Art of Veterinary Medicine II P2 (2-0) [0.50]
Using modules, this course will build on, and enhance, the knowledge base and skill set acquired in Phase 1 in the area of communications, human-animal interactions, professional development, and the client/patient/veterinarian triad. The focus in these areas will now move towards recognizing difficulties that may arise and how to differentiate abnormal situations from normal ones. Problem-solving, conflict resolution and stress management through application of innate and acquired knowledge and skills will be developed. In addition, the course will introduce concepts of business and entrepreneurial skills which are required for successful veterinary practice. OVC Dean's Office, Department of Population Medicine and the Veterinary Teaching Hospital.

Prerequisite(s): VETM*3210
Co-requisite(s): All Phase 2 courses.

VETM*3390 Veterinary Medical Genetics P1 (1-1) [0.50]
The course deals with the genetic basis of disease and birth defects in general and the salient features and inheritance patterns of the common birth defects, metabolic errors and reproductive problems in domestic animals. Department of Biomedical Sciences.

Co-requisite(s): All Phase 1 courses.

VETM*3400 Health Management I P1 (3-1) [0.75]
The course is the first of two comprehensive and integrated courses that will span the first two phases of the DVM program. Both courses are intended to establish the foundation for, and contribute to the students' achievement of selected DVM 2000 elements of competency in the context of the principles of health management. The primary emphasis of this component is to establish the historical perspective and basic tools required for health promotion and disease prevention. Department of Population Medicine.

Co-requisite(s): All Phase 1 courses.

VETM*3410 Health Management II P2 (3-0) [0.75]
This course is a continuation of the Phase 1 course Health Management I. Previously presented concepts will be explored in greater depth and complexity. Additional emphasis will be placed on relevant epidemiological tools for monitoring, outbreak investigation, critical appraisal and the applications of principles from the previous course in the series to measure performance, including relevant production genetics, and animal behaviour in a species/industry context. Department of Population Medicine.

Co-requisite(s): All Phase 1 courses.

VETM*3430 Clinical Medicine I P1 (V-V) [0.25]
The course will contribute to students' achievement of selected DVM 2000 elements of competency in the areas of animal handling and the clinical examination of various species. Students will become familiar with the expected variation in common clinical parameters and how this variation is impacted by aging, changes in health status, and external environmental influences and other sources of stress. Students will be introduced to clinical problem solving using case material from the Veterinary Teaching Hospital. They will develop their verbal and written communication skills through case simulations and analyses. The course will be presented using lectures, laboratory classes and independent study. The graduating competencies can be found on the OVC website (http://www.ovcnet.uoguelph.ca/homepage/html). Department of Clinical Studies.

Co-requisite(s): All Phase 1 courses.

VETM*3440 Clinical Medicine II P2 (0-2) [0.50]
The course is a continuation of Clinical Medicine I. It will contribute to students' achievement of selected elements of graduating competency in the areas of clinical examination of specific organ systems of various species. Students will enhance and refine their clinical problem solving skills using case material from the Veterinary Teaching Hospital. They will continue to develop their verbal and written communication skills through case simulations and analyses. The course will be presented using lectures, laboratory classes and independent study. The graduating competencies can be found on the OVC website (http://www.ovcnet.uoguelph.ca/homepage/html). Department of Clinical Studies.

Co-requisite(s): All Phase 2 courses.

VETM*3450 Principles of Disease in Veterinary Medicine P2 (V-V) [2.75]
This course addresses several major topics, including principles of disease induction and transmission, host response to threat and injury, pathogenetic mechanisms of infectious and toxic agents, and manipulation of disturbances in health. The interaction among host, environmental, and etiologic factors in the development of disease will be highlighted. Students will learn to recognize, describe, and evaluate disturbances of health and homeostasis at the level of the population, individual animal, organ system, tissue and cell using a variety of diagnostic modalities. Departments of Biomedical Sciences and Pathobiology.

Co-requisite(s): All Phase 2 courses.

VETM*3460 Theriogenology P2 (V-V) [0.75]
A lecture and laboratory course covering the normal and abnormal reproductive systems of domestic animals. The course will include mammalian reproductive physiology and histology, diagnosis and treatment of reproductive disorders, including infertility, and management of breeding programs of the common domestic species. An introduction to the new reproductive technologies used in theriogenology will also be provided. Departments of Biomedical Sciences, Pathobiology and Population Medicine.

Co-requisite(s): All Phase 2 courses.
### XII. Course Descriptions, Veterinary Medicine

**VETM*4370 Anaesthesiology and Pharmacology (V-V) [0.75]**
This course provides the general principles, pharmacologic basis, and practical applications of general and local anaesthesia in small and large animals. Other topics covered include fluid and acid-base imbalance and the prevention and treatment of surgical shock. Departments of Biomedical Sciences and Clinical Studies.

**Prerequisite(s):** All Phase 1 courses.
**Co-requisite(s):** All Phase 2 courses.

**VETM*3510 Principles of Surgery P2 (2-0) [0.25]**
The principles of surgery in various animal species are given. The lecture topics include patient and surgeon preparation, tissue handling instrumentation, suturing and surgical principles and approaches to various organ systems and anatomical regions. Department of Clinical Studies.

**Prerequisite(s):** All Phase 1 courses.
**Co-requisite(s):** All Phase 2 courses.

**VETM*4220 Art of Veterinary Medicine III P3 (2-0) [0.50]**
This modular course will require students to apply the knowledge and skills acquired in Phases 1 and 2 to problems that incorporate aspects of one or more of the following areas: communications and conflict resolution, ethics, professional behaviour, human–animal interactions, analysis and planning, and business issues. This course will focus on methods to resolve difficulties in the above areas that are interfering with intrapersonal and interpersonal relationships and with how to return abnormal situations to normal ones. Problem-solving, conflict resolution and stress management through application of innate and acquired knowledge and skills will be expected. The course will be taught primarily through case analysis. OVC Dean's Office, Department of Population Medicine, Veterinary Teaching Hospital.

**Prerequisite(s):** All Phase 2 courses.
**Co-requisite(s):** All Phase 3 courses.

**VETM*4420 Clinical Pharmacology P3 (V-V) [0.25]**
This course stresses rational drug therapy through an understanding of drug factors, host factors and disease factors, with emphasis on clinically relevant properties of selected major drug classes and used for therapy (prevention and treatment) in small animals, food animals, and horses.

**Prerequisite(s):** All Phase 2 courses.
**Co-requisite(s):** All Phase 3 courses.

**VETM*4450 Equine Medicine and Surgery P3 (3-0) [0.50]**
The course will contribute to students’ achievement of selected DVM 2000 elements of competency in the context of the horse. The primary emphasis is directed towards developing the skills, knowledge and attitudes that will permit the entry-level veterinarian to develop strategies to deal with common and uncommon diagnoses. Department of Clinical Studies.

**Prerequisite(s):** All Phase 2 courses.
**Co-requisite(s):** All Phase 3 courses.

**VETM*4460 Food Animal Medicine and Surgery P3 (V-V) [1.00]**
The course will contribute to students’ achievement of selected DVM 2000 elements of competency in the context of the common ruminant species and swine. The primary emphasis is directed towards developing the skills, knowledge and attitudes that will permit the entry-level veterinarian to develop strategies to deal with common and uncommon diagnoses. The graduating competencies can be found on the OVC website (http://www.ovcnet.uoguelph.ca/homepage/html). Departments of Clinical Studies and Population Medicine.

**Prerequisite(s):** All Phase 2 courses.
**Co-requisite(s):** All Phase 3 courses.

**VETM*4470 Medicine and Surgery of Dog and Cat P3 (V-V) [1.00]**
The course will contribute to students’ achievement of selected DVM 2000 elements of competency in the context of the dog and cat. The primary emphasis is directed towards developing the skills, knowledge and attitudes that will permit the entry-level veterinarian to develop strategies to deal with common and uncommon diagnoses. The graduating competencies can be found on the OVC website (http://www.ovcnet.uoguelph.ca/homepage/html). Department of Clinical Studies.

**Prerequisite(s):** All Phase 2 courses.
**Co-requisite(s):** All Phase 3 courses.

**VETM*4530 Health Management III P3 (V-V) [0.50]**
The course will contribute to students’ achievement of greater depth in selected elements of graduating competency in the context of health management in species of their choice. The primary emphasis is directed towards developing species-specific skills, knowledge and attitudes that will permit the entry-level veterinarian to advise and advise on animal production and performance and evaluate the necessity for, and implementation of, health management programs. The course is constructed of a series of species-based modules. Students will be required to take two of the modules. The graduating competencies can be found on the OVC website (http://www.ovcnet.uoguelph.ca/homepage/html). Department of Population Medicine.

**Prerequisite(s):** All Phase 2 courses.
**Co-requisite(s):** All Phase 3 courses.

**VETM*4540 Surgical Exercises P3 (V-V) [1.75]**
Veterinary students receive training in preoperative planning, anaesthesia and surgical techniques, operative room decision making and post-operative care in this laboratory course. Students begin by practicing technical skills on inanimate models. They progress to performing a series of supervised operations designed to parallel the most commonly performed surgeries in private practice. A once weekly rotation period allows discussion of issues arising from the previous anaesthesia and surgery, and planning for the upcoming laboratory. Though some didactic material is presented, the course is mainly experiential. The evaluation outcome of the course is outstanding, pass or fail. Department of Clinical Studies.

**Prerequisite(s):** All Phase 2 courses.
**Co-requisite(s):** All Phase 3 courses.

**VETM*4550 Small Animal Clinics - Small Animal Stream P4 (V-V) [3.25]**
This course is for students who have selected the Small Animal Stream in Phase 4 or DVM Program. The goal of the small animal clinics course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will rotate through various service areas, and actively participate in the diagnosis and treatment of client-owned animals in the teaching hospital. Regularly scheduled small group discussions allow the exploration of issues during diagnosis and management of the individual cases.

**Prerequisite(s):** All Phase 3 courses.
**Co-requisite(s):** VETM*4620, VETM*4880, VETM*4900

**VETM*4560 Health Management - Small Animal Stream P4 (V-V) [1.00]**
This course is for students who have selected the Small Animal Stream in Phase 4 or DVM Program. The goal of the health management course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will participate in a series of rotations that emphasize the implementation of veterinary directed management programs, which affect the health of animals and ultimately humans.

**Prerequisite(s):** All Phase 3 courses.
**Co-requisite(s):** VETM*4610, VETM*4880, VETM*4900

**VETM*4480 Comparative Medicine P3 (V-V) [0.75]**
The course will contribute to students’ achievement of selected elements of graduating competency in the context of pet birds, commercial poultry and non-traditional species (fish, amphibians, reptiles, rabbits, rodents, ferrets, non-domestic carnivores and non-domestic ungulates). The primary emphasis is directed towards enhancing the skills, knowledge and attitudes that will permit the entry-level veterinarian to develop strategies to deal with common and uncommon diagnoses. The graduating competencies can be found on the OVC website (http://www.ovcnet.uoguelph.ca/homepage/html). Department of Pathobiology.

**Prerequisite(s):** All Phase 2 courses.
**Co-requisite(s):** All Phase 3 courses.

**VETM*4490 Systems Pathology P3 (V-V) [1.00]**
The course will contribute to students’ achievement of selected elements of graduating competency in the context of pathology across the range of species. The primary emphasis is directed towards developing the skills, knowledge and attitudes that will permit the entry-level veterinarian to carry out the post-mortem examinations, select and perform relevant ancillary diagnostic tests and procedures, interpret findings, and initiate and interpret results of further investigations. The graduating competencies can be found on the OVC website (http://www.ovcnet.uoguelph.ca/homepage/html). Department of Pathobiology.

**Prerequisite(s):** All Phase 2 courses.
**Co-requisite(s):** All Phase 3 courses.
VETM*4660 Small Animal Clinics - Mixed Stream P4 (V-V) [2.00]
This course is for students who have selected the Mixed Stream in Phase 4 or DVM Program. The goal of the small animal clinics course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will rotate through various service areas, and actively participate in the diagnosis and treatment of client-owned animals in the teaching hospital. Regularly scheduled small group discussions allow the exploration of issues during diagnosis and management of the individual cases.
Prerequisite(s): All Phase 3 courses.
Co-requisite(s): VETM*4670, VETM*4680, VETM*4890, VETM*4900
Restriction(s): Registration in the DVM program.

VETM*4670 Large Animal Clinics - Mixed Stream P4 (V-V) [1.50]
This course is for students who have selected the Mixed Stream in Phase 4 or DVM Program. The goal of the large animal clinics course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will rotate through various service areas, and actively participate in the diagnosis and treatment of client-owned animals in the teaching hospital. Regularly scheduled small group discussions allow the exploration of issues during diagnosis and management of the individual cases.
Prerequisite(s): All Phase 3 courses.
Co-requisite(s): VETM*4660, VETM*4680, VETM*4890, VETM*4900
Restriction(s): Registration in the DVM program.

VETM*4680 Health Management - Mixed Stream P4 (V-V) [2.00]
This course is for students who have selected the Mixed Stream in Phase 4 of the DVM Program. The goal of the health management course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will participate in a series of rotations that emphasize the implementation of veterinary directed management programs, which affect the health of animals and ultimately humans.
Prerequisite(s): All Phase 3 courses.
Co-requisite(s): VETM*4660, VETM*4670, VETM*4890, VETM*4900
Restriction(s): Registration in the DVM program.

VETM*4710 Large Animal Clinics - Food Animal Stream P4 (V-V) [1.00]
This course is for students who have selected the Food Animal Stream in Phase 4 or DVM Program. The goal of the large animal clinics course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will rotate through various service areas, and actively participate in the diagnosis and treatment of client-owned animals in the teaching hospital. Regularly scheduled small group discussions allow the exploration of issues during diagnosis and management of the individual cases.
Prerequisite(s): All Phase 3 courses.
Co-requisite(s): VETM*4720, VETM*4880, VETM*4900
Restriction(s): Registration in the DVM program.

VETM*4720 Health Management - Food Animal Stream P4 (V-V) [3.25]
This course is for students who have selected the Food Animal Stream in Phase 4 of the DVM Program. The goal of the health management course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will participate in a series of rotations that emphasize the implementation of veterinary directed management programs, which affect the health of animals and ultimately humans.
Prerequisite(s): All Phase 3 courses.
Co-requisite(s): VETM*4710, VETM*4880, VETM*4900
Restriction(s): Registration in the DVM program.

VETM*4870 Clinical Medicine III P3 (0-2) [0.25]
This course will contribute to students' achievement of selected DVM 2000 elements of competency in the context of the hospital environment. This is an integrated course in which students will enhance a variety of clinical skills, including physical examination, history taking, problem solving, and ancillary diagnostic tests and procedures. This course is primarily carried out in the Veterinary Teaching Hospital where students will be exposed to case material from the Large and Small Animal Clinics. The emphasis is directed towards enhancing the skills, knowledge and attitudes that will permit the student to maximize the benefit to be derived from senior year courses. Department of Clinical Studies.
Prerequisite(s): All Phase 2 courses.
Co-requisite(s): All Phase 3 courses.

VETM*4880 Electives in Veterinary Medicine I P4 (V-V) [3.25]
This course is for students who have selected the Small Animal or Food Animal Stream in Phase 4 of the DVM Program. The goal of this course is to provide students the opportunity to pursue greater breadth and depth in their program according to their interests. The course is largely experiential in structure and process. Students will select a series of approved internal and external rotations that will allow them to pursue areas of interest in veterinary medicine.
Prerequisite(s): All Phase 3 courses.
Co-requisite(s): (VETM*4610 or VETM*4710), (VETM*4620 or VETM*4720), VETM*4900
Restriction(s): Registration in the DVM program.

VETM*4890 Electives in Veterinary Medicine II P4 (V-V) [2.00]
This course is for students who have selected the Mixed or Equine Stream in Phase 4 of the DVM Program. The goal of this course is to provide students the opportunity to pursue greater breadth and depth in their program according to their interests. The course is largely experiential in structure and process. Students will select a series of approved internal and external rotations that will allow them to pursue areas of interest in veterinary medicine.
Prerequisite(s): All Phase 3 courses.
Co-requisite(s): (VETM*4660 or VETM*4920), (VETM*4670 or VETM*4930), (VETM*4680 or VETM*4940) VETM*4900
Restriction(s): Registration in the DVM program.

VETM*4900 Veterinary Externship P4 (0-0) [2.50]
This is an eight-week experiential learning opportunity that junior students in the DVM Program must organize by the mid-way through Phase 3. The externship must be in approved private, primary care, veterinary practice. Senior students in the DVM Program, under the supervision of a designated host veterinarian, will experience being part of a team providing health care services to the public. This course will provide students with the opportunity to integrate and apply their knowledge and experience from previous courses, and further refine their problem-solving and communication skills, and enhance their ability to work as part of a team. The evaluation outcome of this course is outstanding, pass or fail. Coordinated by the Department of Clinical Studies.
Prerequisite(s): All Phase 1, Phase 2 and Phase 3 courses.

VETM*4920 Small Animal Clinics - Equine Stream P4 (V-V) [1.50]
This course is for students who have selected the Equine Stream in Phase 4 or DVM Program. The goal of the small animal clinics course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will rotate through various service areas, and actively participate in the diagnosis and treatment of client-owned animals in the teaching hospital. Regularly scheduled small group discussions allow the exploration of issues during diagnosis and management of the individual cases.
Prerequisite(s): All Phase 3 courses.
Co-requisite(s): VETM*4890, VETM*4900, VETM*4930, VETM*4940
Restriction(s): Registration in the DVM program.

VETM*4930 Large Animal Clinics - Equine Stream P4 (V-V) [2.50]
This course is for students who have selected the Equine Stream in Phase 4 or DVM Program. The goal of the large animal clinics course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will rotate through various service areas, and actively participate in the diagnosis and treatment of client-owned animals in the teaching hospital. Regularly scheduled small group discussions allow the exploration of issues during diagnosis and management of the individual cases.
Prerequisite(s): All Phase 3 courses.
Co-requisite(s): VETM*4890, VETM*4900, VETM*4920, VETM*4940
Restriction(s): Registration in the DVM program.

VETM*4940 Health Management - Equine Stream P4 (V-V) [1.50]
This course is for students who have selected the Equine Stream in Phase 4 of the DVM Program. The goal of the health management course is to assist in the role transformation from veterinary student to veterinary practitioner. The course is largely experiential in structure and process. Small groups of students will rotate through various service areas, and actively participate in the diagnosis and treatment of client-owned animals in the teaching hospital. Regularly scheduled small group discussions allow the exploration of issues during diagnosis and management of the individual cases.
Prerequisite(s): All Phase 3 courses.
Co-requisite(s): VETM*4670, VETM*4890, VETM*4900, VETM*4920
Restriction(s): Registration in the DVM program.
# Women's Studies

## WMST*1000 Introduction to Women's Studies F (3-0) [0.50]
An introduction to the methods and analyses of Women's Studies. An interdisciplinary feminist and multicultural examination of research about women and the gendered nature of societies and cultures. Areas of inquiry may include psychology, law, science, culture, work, family, violence, health, and sexuality.

Equate(s): ISS*2200, WMST*2200

## WMST*2000 Women and Representation W (3-0) [0.50]
An interdisciplinary analysis of the role gender plays in representation, drawing on areas such as television, film, music, literature, visual arts, ethnography, medicine and law. International and cross-cultural perspectives included.

## WMST*3000 Feminist Theory and Methods F (3-0) [0.50]
A comparative and critical examination of feminist theories and their methodological implications, including contributions of and tensions between various feminisms. Special attention to contemporary developments in the field.

Prerequisite(s): 10.00 credits including (1 of ISS*2200, WMST*1000, WMST*2200), (0.50 additional credits from Women's Studies List A), (1 of ARTH*2480, DRMA*2300, ENGL*2120, PHIL*2060, POLS*2000, SOAN*2400)

## WMST*3010 Gender and Diversity W (3-0) [0.50]
An examination of studies of the interaction of gender with race, class, ethnicity, sexual orientation, ability/disability, and other axes of difference as they position women within systems of power. Students will compare and assess contemporary theories, approaches, and research that address together gender and diversity issues and problems.

Prerequisite(s): 10.00 credits including WMST*1000, WMST*2000, 0.50 additional credits from Women's Studies List A

## WMST*4010 Seminar in Women's Studies W (3-0) [0.50]
The framework of the course will be provided by a series of unresolved issues or challenging questions regarding women which will call upon the students' critical, evaluative, and integrative abilities. The content will largely depend upon the students' backgrounds within the program and their other major areas of study.

Prerequisite(s): 15.00 credits including WMST*1000, WMST*2000 and 1.00 additional credits from Women's Studies List A at the 3000 level or above.

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Last Revision: Oct. 19, 2012

2012-2013 Undergraduate Calendar
**Zoology**

*Department of Integrative Biology*

**ZOO*2090 Vertebrate Structure and Function F (2-3) [0.50]**
This course offers a comparative survey of the structure and functioning of the chordates with emphasis on the vertebrates and includes a laboratory study of the anatomy of selected vertebrates.

**Prerequisite(s):** 4.00 credits including (BIOL*1040 or BIOL*1070)

**ZOO*2700 Invertebrate Morphology & Evolution W (3-3) [0.50]**
This course examines the vast diversity of invertebrate taxa and the tools and concepts used to classify them and understand their origins. Principles of zoogeography, phylogeny, natural selection and comparative analyses will form the conceptual backbone of the course. In lectures and labs, students will 'climb' the tree of life, from the most ancient pre-invertebrates to more derived forms, and explore their anatomical and morphological diversity.

**Prerequisite(s):** 4.00 credits including (BIOL*1040 or BIOL*1070)

**Equate(s):** IBIO*2300

**Restriction(s):** ZOO*2070, ZOO*2080

**ZOO*3000 Comparative Histology F (3-3) [0.50]**
This course provides an introduction to the microscopic structure of the major organ systems of the vertebrate body. Beginning with an examination of epithelial, connective, muscular, and nervous tissues, the course then examines the comparative histology of the circulatory, nervous, digestive, integumentary, respiratory, excretory, reproductive, endocrine, and sensory systems of vertebrates.

**Prerequisite(s):** 1 of BIOM*3110, BIOM*3200, HK*3940, ZOO*3200, ZOO*3210

**ZOO*3200 Comparative Animal Physiology I F (3-3) [0.50]**
This course will focus on the development of vertebrates and invertebrates from fertilized egg to adult. It will examine fertilization, cell differentiation into tissues and organs, regulation of cell growth, and transmission of developmental information to the next generation. Throughout, the course will emphasize the evolutionary mechanisms that have shaped developmental patterns in animals.

**Prerequisite(s):** (MBG*2000 or MBG*2040), BIOL*2400 is strongly recommended

**Restriction(s):** ZOO*2100

**ZOO*3210 Comparative Animal Physiology II W (3-3) [0.50]**
This is the second course that provides an introduction to the physiological mechanisms used by vertebrates and invertebrates. The course will examine the underlying molecular and cellular events which mediate physiological processes and contribute to whole animal homeostasis. Particular emphasis will be placed on comparing the strategies and adaptations used by different animals and the influence of varying environmental conditions. The course discusses cellular physiology, neuromuscular physiology and endocrinology. This course involves exercises that use animals. BIOM*3200 and HK*3940 are available to cover similar material without labs.

**Prerequisite(s):** BIOC*2580

**ZOO*3700 Integrative Biology of Invertebrates F (3-3) [0.50]**
This course explores variation in physiology, reproduction and life history among invertebrates, and the role of invertebrates in marine, freshwater and terrestrial ecosystems. Through field experiences, lab study and a class experiment, we will examine the diverse solutions that invertebrates have evolved to live in very different environments, including: circulation and gas exchange; feeding and digestion; osmoregulation and excretion, nervous system and sensory structures; locomotion and biomechanics, and invertebrate communities.

**Prerequisite(s):** IBIO*2300, ZOO*2700

**Equate(s):** IBIO*3300

**Restriction(s):** ZOO*2080

**ZOO*4070 Animal Behaviour F (3-0) [0.50]**
This course provides an introduction to the theories and principles of the behaviour of animals. It includes comparative studies of learning, socialization, social interaction, and other components of animal behaviour.

**Prerequisite(s):** (1 of BIOL*2400, BIOL*3400, ZOO*3300), (STAT*2040 or STAT*2230)

**ZOO*4170 Experimental Comparative Animal Physiology W (3-3) [0.50]**
In this course an experimental approach to the study of physiological mechanisms and adaptive responses to changes in the environment will be stressed. The focus of the course will be on laboratory exercises.

**Prerequisite(s):** 1 of BIOM*3110, BIOM*3200, HK*3940, ZOO*3210, ZOO*3250

**ZOO*4300 Marine Biology and Oceanography F (3-3) [0.75]**
This intensive two-week course is held in late August or early September before classes commence for the Fall semester. The course is held at the Huntsman Marine Science Centre, St. Andrews, New Brunswick. The ecology, behaviour, physiology, biochemistry, biomechanics of marine plants and animals will be studied as well as basic oceanographic techniques. Students will be able to familiarize themselves with the techniques and equipment involved in various branches of marine biology and oceanography. In addition to regular tuition fees, students are responsible for the cost of transportation to St. Andrews, and for charges levied by the Huntsman Marine Science Centre for room and board. These fees are paid to Student Finance and Awards of the University of Guelph. A department application form must be submitted for approval before course selection. The signature of the course coordinator is required to select the course. This course must be recorded as part of your Fall course selection and tuition and compulsory fees will be calculated accordingly. Students taking this course DO NOT use course numbers reserved for Ontario Universities Program in Field Biology.

**Prerequisite(s):** BIOL*3450, (BIIO*2300 or ZOO*2700)

**ZOO*4330 Biology of Fishes W (2-3) [0.50]**
This course provides a comparative examination of selected freshwater and marine fishes to illustrate the influence of aquatic environments on life styles, behavioral patterns, physiological responses, population biology and community structure. The use of niche, habitat and ecotype concepts in defining the role of fishes in representative types of aquatic ecosystems will be examined.

**Prerequisite(s):** ZOO*4930, (STAT*2040 or STAT*2230)

**ZOO*4450 Marine and Freshwater Research F,W (0-6) [0.50]**
In this course, students will design, execute and communicate the results of a research project involving aquatic organisms. This will involve an examination of the primary scientific literature, the formulation of hypotheses, the design of experiments, the development of analytical skills and familiarity with the operation of analytical equipment and data analysis. Faculty guidance will be provided.

**Prerequisite(s):** BIOL*3450, BIOC*2580, PHYS*1080, STAT*2040

**Restriction(s):** Registration in semester 7 or 8 of the Marine and Freshwater Biology Major of the B.Sc. Program.

**ZOO*4570 Marine Ecological Processes W (3-1) [0.50]**
This course provides an advanced analysis of the physical and biogeochemical processes in the world’s oceans and the dependence of biological processes on physical and chemical processes from micro- to macro-scales. Topics to be discussed include production and energy transfer within pelagic food webs, export of energy to the benthos, and structure and dynamics of marine communities.

**Prerequisite(s):** BIOL*2060, BIOL*3450, PHYS*1080

**ZOO*4910 Integrative Vertebrate Biology F (3-0) [0.50]**
This course examines the proximate and historical causes of diversity in morphology, physiology and behaviour among major groups of vertebrates (fishes, amphibians, reptiles, birds, mammals). First, topics such as vertebrate origins, zoogeography, taxonomy and comparative methods will be developed as a foundation for inquiry. The remainder of the course will be organized around specific contemporary problems in vertebrate biology such as the evolution of endothermy; feeding strategies and metabolism; locomotion and migration; trends in vertebrate reproduction; evolution of brain size and complexity in relation to cognition and communication. Each problem will be explored through analyses of taxonomic diversity, historical and phylogenetic constraints, physiological and developmental causes, and functional effects. Students wishing to add this course who have successfully completed ZOO*2100 may obtain a co-requisite waiver for ZOO*3050 from the BSc Program Counsellors.

**Prerequisite(s):** ZOO*2090, (1 of BIOL*2400, BIOL*3400, ZOO*3300)

**Co-requisite(s):** ZOO*3050, ZOO*3200
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOO*4920</td>
<td>Lab Studies in Ornithology</td>
<td>F</td>
<td>0-3</td>
</tr>
<tr>
<td>ZOO*4930</td>
<td>Lab Studies in Ichthyology</td>
<td>F</td>
<td>0-3</td>
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<tr>
<td>ZOO*4940</td>
<td>Lab Studies in Herpetology</td>
<td>W</td>
<td>0-3</td>
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<tr>
<td>ZOO*4950</td>
<td>Lab Studies in Mammalogy</td>
<td>W</td>
<td>0-3</td>
</tr>
</tbody>
</table>

This course provides a practical experience in the study of Ornithology. Using University collections of prepared and preserved specimens and field observations where possible, students will develop and apply skills in identification and sampling, explore relations between species diversity and habitat, and investigate, through guided study, the extent of anatomical, skeletal, reproductive and morphological variation and its functional and evolutionary causes.

Co-requisite(s): ZOO*3200, ZOO*4910

Restriction(s): Instructor consent required.

This course provides a practical experience in the study of fishes. Using University collections of prepared and preserved specimens and field observations where possible, students will develop and apply skills in identification and sampling, explore relations between species diversity and habitat, and investigate, through guided study, the extent of anatomical, skeletal, reproductive and morphological variation and its functional and evolutionary causes.

Co-requisite(s): ZOO*3200, ZOO*4910

This course provides a practical experience in the study of Herpetology. Using University collections of prepared and preserved specimens and field observations where possible, students will develop and apply skills in identification and sampling, explore relations between species diversity and habitat, and investigate, through guided study, the extent of anatomical, skeletal, reproductive and morphological variation and its functional and evolutionary causes.

Prerequisite(s): ZOO*4910

This course provides a practical experience in the study of Mammalogy. Using University collections of prepared and preserved specimens and field observations where possible, students will develop and apply skills in identification and sampling, explore relations between species diversity and habitat, and investigate, through guided study, the extent of anatomical, skeletal, reproductive and morphological variation and its functional and evolutionary causes.

Prerequisite(s): ZOO*4910
XIII. Diploma Programs

For information about Associate Diploma Programs offered at the University of Guelph and regional campuses, please refer to the current Diploma Program Calendar. The current Diploma Program Calendar is available on the world-wide-web at http://www.uoguelph.ca/diploma_calendar/.
XIV. General Information

Centres and Institutes

Centre For International Programs

The Centre for International Programs, the first of its kind in Canada, aims to facilitate, stimulate and support a continuously growing range of University involvement in international activities. This goal is accomplished by developing and maintaining contacts with university partners around the world, supporting study abroad programs, and providing liaison with government agencies, private sector companies and non-governmental organizations. The Centre provides information on international opportunities and resources to students and faculty, and manages the University’s student exchange programs. The Centre contributes to university policy on internationalization and serves as a focal point for links with other universities, government agencies, and private sector firms wishing to cooperate with the university in international activities.

Computing and Communications Services

Students are encouraged to purchase or arrange access to a computer for general computing needs, including word processing and spreadsheet applications. The computing environment on campus is primarily Windows. Laser printing facilities are available in several areas on campus.

Whether you are on campus or in residence, Computing and Communications Services (CCS) can help you. Central computing accounts provide access to the Internet and instructional software. You will enjoy access to e-mail and the Web, increasingly important educational tools. All residence rooms are connected to the campus fibre-optic network, providing you with Internet access.

You can access your account from many of the over 1,000 campus microcomputers or via your own computer. Training seminars are available to introduce you to the major software packages and applications. CCS offers phone support through their Help Centre as well as walk-in support at their Help Desk in the Library. To get started, you can access the CCS web site at www.uoguelph.ca/ccs, for information and help.

Child Care

The University of Guelph is consciously striving to provide equal opportunity for academically qualified students who are pregnant or have child care responsibilities, and to overcome barriers to full participation by such students in the University community. To this end, the University faculty and administration are sensitive to the need to assist students who are pregnant, or whose family responsibilities interfere with their educational endeavours. Students who require special consideration due to pregnancy or child care responsibilities are encouraged to speak to their course instructors or academic counsellors.

Campus Child Care Co-operative of Guelph

The Campus Child Care Co-operative of Guelph is a registered charitable organization incorporated as a co-operative non-profit day care. The centre is located on the edge of the University campus and offers care for 62 children between the ages of 3 months and 6 years. There are full-time and part-time programs offered weekly from 07:30 - 17:30. The child care centre is a family-supportive setting governed by a Board of Directors who are elected by the parent body. Parents are welcome to visit and participate in the program.

The facility is open to children of OMAF employees, faculty, staff and students of the University and to the Guelph community. Subsidy is available for families that qualify for assistance. For further information contact Dori Cross, Director at 519-826-6927.

University of Guelph Child Care and Learning Centre

The University of Guelph Child Care and Learning Centre (CCLC) is located on campus at the corner of East Ring Road and Arboretum Road. The CCLC operates within the Division of Student Affairs in collaboration with the Department of Family Relations and Applied Nutrition, within the College of Social and Applied Human Sciences. The CCLC has three primary goals:

• to provide family-sensitive, family-centred programs for children while their parents work or study
• to provide a resource for the academic community in which observation of children, research and practical experiences can take place
• to demonstrate excellence in child care, education and student training

The CCLC offers 111 child care spaces for 25 toddlers, 64 preschoolers and 22 kindergarteners. Care is available for children from 18 months to 5 or 6 years of age on a full or part-time basis, Mondays through Fridays from 07:30 to 17:30. Parents may get

Copyright Policy

When a student produces a work eligible for copyright based on research or other scholarly activity conducted under the supervision of a faculty member and the supervision of that work is a requirement of the academic program, the University, whilst acknowledging the sole copyright ownership by the student, reserves the right of access to the work. It is a condition of engaging in the undergraduate or graduate programs at the University that the University receives a non-exclusive royalty free license to:

1. Circulate the work as part of the University library collection;
2. Make copies or representations of the work for academic purposes within the University;
3. Make single copies of a thesis deposited in the University Library at the request of other universities or bona fide institutions;
4. Microfilm the work and submit the microfilm to the National Library of Canada;
5. Publish the abstract of any work which is a student thesis.

For more information, contact the Office of Research.

Counselling & Disabilities Services (CSD)

The University of Guelph is committed to creating a barrier-free environment. We feel that providing services for students with disabilities is a shared responsibility among students, faculty and administration. This relationship is based on respect of individual rights, the dignity of the individual and the University community’s shared commitment to an open, supportive learning environment.

The CSD is staffed with disability advisors, strategists, specialists and administrative support. Our services are complemented by Peer Helpers and volunteers who provide one-to-one assistance. When necessary, referrals are made to other services such as personal counselling, career counselling and Student Health Services.

The CSD provides support by implementing appropriate exam and classroom accommodations, advising students on academic, personal, and disability issues, and educating students on how to develop effective learning strategies. The staff and volunteers of the CSD also develop workshops, events and educational campaigns designed to promote greater awareness and understanding of disability issues in the University community.

Admission Procedures

The University of Guelph is committed to ensuring equal access for students with disabilities. The University encourages applications from students with disabilities and will provide admission information to applicants in alternate formats (Braille, audio tape) upon request.

If you need assistance with the admission process or your marks do not reflect your ability because of your disability, contact the Centre for Students with Disabilities or Admission Services (extension 58721) for further information.

All information that you provide is held in confidence and the disclosure of a disability will in no way jeopardize your chance of admission.

Upon admission, students requiring services and accommodations related to their disability must forward supportive documentation of their disability to the Centre for Students with Disabilities. In the case of students with learning disabilities, documentation should include a recent and valid psycho-educational assessment.

Services

The Centre for Students with Disabilities (CSD) works with students who have hearing, visual, learning, medical, physical or psychological disabilities. The Centre has a variety of resources providing support and resources that will facilitate success in the academic process. Resources such as alternate format texts, writing tutors, computer assisted technology, photocopy services, notetakers, interpreters and library assistance are available.

Counselling is provided in the academic, financial, residential and personal areas. Advisors will liaise with the University to ensure that the proper classroom and exam accommodations are available to the student. A learning disabilities strategist is available to provide learning strategy instruction and counselling related to their disability. The CSD is located on the 3rd Floor, University Centre, extension 56208.

Cultural Affairs

The University of Guelph promotes a wide range of activities in fine art, music and drama. These activities, some of which are integral to the teaching program of the College of Arts, are administered by the appropriate departments and schools of the College and by the Curator of Art.

Guelph Campus Cooperative

The Guelph Campus Co-op was started in 1913 by students who knew they couldn’t count on others to look out for their interests. So they organized their buying power. Their biggest concerns: the availability and cost of textbooks and finding a decent place to live. Sound familiar? Obviously a lot has changed since then. But not the principles behind the co-op. First and foremost, we’re still by students for students. Students still dictate Co-op policy and our services are still focused squarely on making student life better. Perhaps most relevant to you is that we are not a profit-centred corporation. Getting more of your money is not our mandate. Saving you money is.
Annual memberships are available for $10 and entitle you to a 5 per cent discount at the Bookstore, use of Co-op resources, the right to apply for Co-op housing, and the right to vote and run for the Board of Directors. For more information call 824-4950 or email info@guelphcampus.coop.

**Guelph Campus Co-op Housing**

Affordable and close to campus, the Co-op operates shared houses and apartments at below market rates. It's a better deal because our mandate is to serve students, not make big profits. Another reason it's affordable is that the deal includes your participation in the upkeep and running of your place. Sound reasonable? Apply early: only a limited number of units become available each term, and the waiting list can get pretty long. Application forms are available at the Co-op office at 17 College Avenue West (across from OVC) or our website at [http://www.guelphcampus.coop](http://www.guelphcampus.coop).

**Co-op Bookstore**

There are two bookstores on campus - only one of them is owned by students. You get the lowest possible prices, and we'll always substitute good used texts when they are in stock. We'll also buy back your texts for cash any time throughout the year. When ordering, all you have to do is give us your order - in person, over the phone, or by email - and we'll get everything ready for you. We know textbooks, and we know the courses you're taking. So if you need help reviewing your course list needs, talk to us. That's part of our service. To check your course lists online, visit our web site at [http://www.guelphcampus.coop](http://www.guelphcampus.coop). Where you spend your money counts.

**Health and Performance Centre**

The Health and Performance Centre is located on the second floor of the John T. Powell Building. It is easily accessed off of East Ring Road and is located near the Twin Pad Arena, Athletics and Student Health Services. The Centre provides service to all students and their families, staff and the general community.

The Health and Performance Centre specializes in the diagnosis, treatment and rehabilitation of acute and chronic orthopedic, musculoskeletal, sport and activity related injuries. The Centre also provides a variety of health promotion services including fitness and nutrition expertise. The Centre's multi-disciplinary team includes: sports medicine physicians, physiotherapists, athletic therapists, massage therapists, dietitians, pedorthist, chiropractor, fitness consultant and professional bike fit technician.

Services are offered on a fee for service basis. Many of the services are eligible for coverage by provincial and international health plans, the University of Guelph student health plan and other extended health plans. Students are encouraged to investigate their health coverage.

The Health and Performance Centre is open from 8:00 a.m. to 8:00 p.m. Monday to Thursday and 8:00 a.m. to 6:00 p.m. Friday. For general enquiries and appointments, please visit the website at [http://www.uoguelph.ca/hpc](http://www.uoguelph.ca/hpc) or call 519-767-5011 or ext. 53039.

**Human Rights and Equity Office**

The HREO is located at the north side of the campus at Fielding House, 15 University Avenue East. All enquiries are confidential. Office hours are Monday-Friday: 8:45 a.m.-4:45 p.m. Phone: 824-4120, ext. 53000; TTY: 767-0615; Website: [http://www.uoguelph.ca/hre](http://www.uoguelph.ca/hre).

"The University of Guelph Human Rights and Equity Office (HREO) is dedicated to the removal of all systemic barriers, discrimination and harassment and will engage in advocacy within the university community towards this end." (Mission Statement, Human Rights and Equity Office)

The University of Guelph prohibits harassment or discrimination in work, study, residential and university life on the basis of: race, colour, ancestry, place of origin (where you were born), ethnic background, citizenship, creed (religion), sex, disability, sexual orientation, age, marital status, and family status. In some cases, discrimination includes unfair treatment on the basis of the receipt of public assistance or a pardoned criminal offense.

The Ontario Human Rights Code and the Canadian Human Rights Act, as well as the University's Sexual and Gender Harassment Policy and Procedure and Interim Human Rights Procedure, prohibit harassment or discrimination on the basis of these grounds. The University of Guelph is currently developing a comprehensive human rights policy and complaints procedure to integrate and replace these existing policies and procedures. The University's human rights policies and complaint procedures are available on the HREO Web page at [http://www.uoguelph.ca/hre](http://www.uoguelph.ca/hre).

**Definitions**

Harassment is defined as any attention or conduct (oral, written, graphic or physical) by an individual or group who knows, or ought reasonably to know, that such attention or conduct is unwelcome/unwanted, offensive or intimidating.

**Discrimination** is defined as the denial of equal treatment, civil liberties, and/or opportunity to a group or member of the group on the basis of: race, colour, ancestry, place of origin, ethnic background, citizenship, creed (religion), sex, disability, sexual orientation, age, marital status, family status and, in some cases, receipt of public assistance or a pardoned criminal offense. Discrimination may be systemic wherein the policies and practices that have become standard in established institutions appear to be neutral but result in the exclusion of certain groups.

**Inquiries and Complaints**

Members of the University community (including students, staff and faculty) have the right to seek confidential advice and information about concerns or complaints regarding harassment or discrimination. The HREO may assist individuals to resolve complaints by serving as a resource to the parties involved, providing mediation, or facilitating the University's human rights concern and complaint resolution procedures.

In addition, any party may consult with the HREO regarding an administrative, managerial or curriculum decision which may relate to a human rights or equity issue. The HREO also provides human rights education and training and works in partnership with the University constituents on matters of educational and employment equity.

**Services**

The HREO provides the following services to members of the University: information and advice regarding discrimination and harassment; facilitation of an internal human rights complaint procedure; mediation to resolve complaints; resource information on human rights and equity issues; training and education; participation on university committees; and research development and evaluation of equity initiatives.

**Information on Teaching Certificates**

Students considering a teaching career are advised to contact the appropriate Faculty of Education to determine the subjects, credits, and grades required for admission. For the Ontario Faculties of Education can be found at [http://www.recruit.on.ca/teas](http://www.recruit.on.ca/teas), along with the web links to each Ontario Faculty of Education. For more information email Co-operative Education & Career Services at: recruit@uoguelph.ca.

**Brock University**

Faculty of Education  
St. Catherines ON L2S 3A1  
(905)685-5550 ext. 3591  
[http://www.brocku.ca](http://www.brocku.ca)

**Lakehead University**

Thunder Bay ON P7B 5E1  
(807)343-8520  
[http://www.lakeheadu.ca](http://www.lakeheadu.ca)  
Fax: (807)344-6807

**Laurentian University**

School of Education  
Ramsey Lake Road  
Sudbury ON P3E 2C6  
(705)474-3450 ext. 5004  
[http://www.laurentian.ca](http://www.laurentian.ca)

**Nipissing University**

Faculty of Education  
P.O. Box 5002  
North Bay ON P1B 8L7  
(705)474-3450  
Fax: (705)474-1947  
[http://www.nipissingu.ca](http://www.nipissingu.ca)

**Queen’s University**

Faculty of Education  
Duncan McArthur Hall  
Kingston ON K7L 3N6  
(613)533-6210  
Fax: (613)-533-6584  
[http://educ.queensu.ca](http://educ.queensu.ca)

**The Ontario Institute for Studies In Education/University of Toronto**

252 Bloor Street West  
Toronto, ON M5S 1V6  
(416)923-6580  
Fax: (416)923-6574  
[http://www.oise.utoronto.ca](http://www.oise.utoronto.ca)
The University supports the presence, and values the contribution, of international students to both undergraduate and graduate students.

The University of Guelph invites international students to apply for admission to our undergraduate and graduate programs. Financial awards and research grants are available to both undergraduate and graduate students. The University supports the presence, and values the contribution, of international students in the cross-cultural learning and global understanding of the academic community and the City of Guelph.

Inventions Policy

In the course of completing their degree requirements, undergraduate or graduate students may discover or help discover technology which might be patentable and/or have the possibility for commercial development. Any student who suspects this might be the case should, without delay, contact his or her research supervisor, if appropriate, and the Office of Research. Although the rights to such inventions are owned by the University, in accordance with the University's Inventions Policy, a student who is an inventor or co-inventor would share in any revenues earned by the invention. For more information, contact the Office of Research.
Regular Officer Training Plan (ROTP)

Under the ROTP, undergraduates who are successful applicants are enrolled as Officer Cadets in the Canadian Forces. Applicants must be Canadian citizens and pass pre-enrollment tests. Application may be made prior to entrance, or at any time prior to the last year of university studies. Applications are processed through Canadian Forces Recruiting Centres. For more information contact the local Recruiting Centre at 1-800-856-8488.

Statistics Canada - Notification of Disclosure

Statistics Canada is the national statistics agency. As such, Statistics Canada carries out hundreds of surveys each year on a wide range of matters, including education. In order to carry out such studies, Statistics Canada asks all colleges and universities to provide data on students and graduates. Institutions collect and provide to Statistics Canada student identification information (student’s name, student ID number, Social Insurance Number), student contact information (address and telephone number), student demographic characteristics, enrolment information, previous education and labour force activity.

The Federal Statistics Act provides the legal authority for Statistics Canada to obtain access to personal information held by educational institutions. The information may be used only for statistical purposes, and the confidentiality provisions of the Statistics Act prevent the information being released in any way that would identify a student. Students who do not wish to have their information released are able to ask Statistics Canada to remove their identification and contact information from the national database. For further information, please see Statistics Canada’s web site at <http://www.statcan.ca> or write to the Postsecondary Section, Centre for Education Statistics, 17th Floor, R.H. Coats Building, Tunney’s Pasture, Ottawa, Ontario, K1A 0T6.

Student Computing

Students are encouraged to purchase or arrange access to a computer for general computing needs, including word processing and spreadsheet applications. The computing environment on campus is primarily Windows. Laser printing facilities are available in several areas on campus.

Whether you are off campus or in residence, Computing and Communications Services (CCS) can help you. Central computing accounts provide access to the Internet and instructional software. You will enjoy access to e-mail and the Web, increasingly important instructional tools. All residence rooms are connected to the campus fibre-optic network, providing you with Internet access.

You can access your account from over 1,000 campus microcomputers or your own computer. Training seminars are available to introduce you to the major software packages and applications. CCS offers phone support through their Help Centre and as a partner in the Learning Commons, we provide walk-in support at the IT Help Desk in the Library.

To get started, you can access the CCS web site at http://www.uoguelph.ca/ccs for information and help.

Student Services

Athletics

The University of Guelph offers students an excellent opportunity to combine academic pursuits with an athletics program of their choice. A quality athletics program is available to complement any student's leisure hours.

For skilled and competitive student athletes, dedicated to the pursuit of excellence, men's and women's intercollegiate programs are offered. The men's and women's teams compete in 17 team and individual sports at the provincial (OUA - Ontario University Athletics) and/or national levels (CIS - Canadian Interuniversity Sport). Prospective intercollegiate athletes are urged to contact the coach by writing, phoning or emailing. For a full list of the intercollegiate sports and coach contact information, browse “Varsity Sport” on our web site at http://www.gryphons.ca.

The Department of Athletics offers a multitude of on-campus recreational opportunities to all members of the University community. These on campus programs cover four general areas: intramurals, interest classes, sports groups and clubs and recreational activities. They are geared to all levels of skill and interest. All on-campus programs begin early each semester. Students should consult the “Gryphon Guide” brochure, or the Department of Athletics website for detailed information.

Intramural sports involve more than 8,000 people at various levels of competition. The intramural programs encourage groups of students: men, women and co-ed to “get together” in an enjoyable “competitive” or “fun” setting at their own skill level. Soccer, ultimate frisbee, hockey, volleyball and basketball are very popular while the newest addition is badminton. Several one-day tournament activities are also offered. For a full list of sports, click on “Intramurals” on the athletics website.

More than forty different activities are offered in the interest class framework. Most of these programs are introductory in nature, providing participants with a foundation to continue these activities in future years. They range from CPR, dance, martial arts and aquatics to other various sports activities. In addition, there are a multitude of fitness programs that include both land and water classes operating throughout the day. For more information, consult the “Fitness and Recreation” section of our website.

Sports Groups and Clubs provide another format for students to share their interest and enthusiasm through activity. The level and intensity of the activity will be determined by the demonstrated interest. Anyone interested in pushing themselves to new limits should definitely look into the Climbing Club. For a full list of sports groups or clubs, visit “Clubs” on our website.

The University of Guelph has a wide range of indoor and outdoor facilities to service our varied, broad-based athletic programs. We have a stadium, lighted soccer, rugby, fastball and multi-purpose fields, four ball diamonds and four additional multi-purpose fields. The W.F. Mitchell Building has three gymnasia, two pools, five squash courts, three dance/multi-purpose rooms, a weight room, circuit room, cardio theatre, combatives room and two climbing walls. The Gryphon Centre houses a twin pad arena and our Gryphon Dome has a 200 m running track and (167' by 116') indoor turf field. For facility hours of operation, click on the “Facilities” section of our website.

The Department of Athletics also offers employment opportunities to students in a variety of capacities including lifeguards, fitness and lifestyle instructors, intramural referees, interest class instructors, event management staff, weight and circuit room staff, client service centre staff, camp staff as well as many other areas within athletics. Browse the “Facility” and “Fitness and Recreation” pages on our website to see a list of employment opportunities in Athletics.

Co-operative Education & Career Services

Co-operative Education & Career Services (CECS) supports, trains and leads students and alumni as they make career and further education planning decisions. Successful students connect with CECS early in their academic career and take full advantage of the career planning and job search services offered. CECS will help students to discern “what to do with their degree”. Please refer to http://www.cecs.uoguelph.ca/home/ for more information.

The CECS job posting website, Recruit Guelph, provides online job postings including full-time, part-time, contract, seasonal, summer and internships. Job & Career Fairs and employer networking events also provide exposure to the working world.

Co-operative Education (Co-op) is available in over 38 majors for students. Co-op, a form of work integrated learning, is a model of education that integrates a student’s academic learning with periods of paid workplace learning in fields relevant to the student’s academic and personal/professional goals. The academic and work schedules will vary with degree program and major. The first co-op work term is scheduled after the third or fourth academic semester, providing an academic foundation on which to build the work experience. Co-op is delivered in concert with employer partners, and constitutes part of the student’s formal curriculum. The University of Guelph Co-operative Education program is accredited by the Canadian Association for Co-operative Education (CAUCE).

Counselling & Disability Services

Counselling & Disability Services fosters academic success, personal development, and spiritual growth by engaging students in the life of the campus and greater community and supporting them through the many transitions they experience during their university career.

Because learning takes place both inside and outside of the classroom, we encourage students to take part in the following programs and services:

Counselling Services offers professional counselling to help students deal with personal or psychological problems in order to foster personal and academic growth. Both individual and group counselling therapy are provided.

Multi Faith Resource Team is a multi-faith service providing pastoral care and worship services. This group of religious persons, representing major world religions, sponsors programs related to agriculture, feminism, justice and spirituality. An interfaith resource centre is open students.

The Centre for Students With Disabilities assists students with disabilities by providing counselling and support, arranging appropriate classroom and exam accommodations and promoting greater awareness and understanding of disability issues in the university community.

Student Support Network (SSN) peer counsellors provide personal support, information, a listening ear and referrals on an informal drop-in and telephone basis. Any member of the university community is welcome to use the drop-in or call (ext. 55002) when they wish to talk to someone or seek information. The Network is located in McNally House (on Gordon Street across from the Science complex), and it is staffed by trained student volunteers. The Network is open Monday to Friday at noon until 10:00 pm. You will see the outdoor sign displayed at the front of McNally House when we are open.

Office of the Associate Vice-President, Student Affairs

The Associate Vice President, Student Affairs, is responsible for student services programs at the University of Guelph. This includes addressing the needs of individual students through specific student services programs and working to create an environment that is conducive to intellectual and personal growth.

The Office of Student Affairs is located in the University Centre, Level 4. The Associate V.P. (Student Affairs) is responsible for overall management of the Departments of Athletics, Student Health Services, Student Housing Services, Co-operative Education and Career Services, Student Life and Counselling Services, Child Care and Learning Centre, + Health and Performance Centre.
Student Affairs/Units provide learning opportunities and support services to help students achieve their goals in the context of the University's learning objectives and to be effective contributors in society. Student Affairs staff are committed to helping students by promoting a sense of personal responsibility and self-reliance in addition to assisting in specific problem-solving activities.

Student Government

Student government at the University of Guelph includes the following organizations:
- Central Student Association
- Canadian Federation of Students
- Canadian Federation of Students-Ontario
- Other Student Groups

Central Student Association

The more than 17,000 full-time and part-time undergraduate students at the University of Guelph are represented by the Central Student Association -- the official student association which is elected by all undergraduate students every year. When you pay your student fee ($14.40 which is collected when you pay your tuition, and which also happens to be the lowest in Canada), you become a voting member of your student association. The C.S.A. receives its direction from a 32-member Board of Directors which is comprised of:
- representatives from each of the 7 colleges (two elected, one appointed);
- 5 executive members elected at large from the student body;
- representatives from various student organizations (Interhall, the Board of Governors, the Guelph Campus Co-op, OPIRG, and the Student Senate Caucus).

The C.S.A. has a three-fold purpose:

- **Lobbying**
  The Central Student Association, in conjunction with the Canadian Federation of Students, and the Canadian Federation of Students-Ontario, works to ensure that the rights of students are heard at all levels. Everyone knows that there is strength in numbers. That's why the C.S.A. is the voice for all undergraduate students at the University of Guelph. The C.S.A. works to provide change when the rights of students are being infringed upon.

- **Representation**
  The Central Student Association represents all University of Guelph undergraduate students to the provincial and federal governments, the University Administration, the Board of Governors, the Senate, City Council, the Guelph Transit Commission, and various standing committees, task forces, and commissions, as they arise. This is done to ensure that all of the rights of students are maintained in all decision-making bodies.

- **Services**
  Entertainments and Activities: movies, speakers, concerts, student academic appeals, orientation, faxing, photocopier, and over 70 clubs to join. The C.S.A. provides opportunities for you to expand beyond the world of formal academics by providing services that make student life at this University less cumbersome and a lot more fun!

The Central Student Association is located on the 2nd floor of the University Centre. Room 274. The phone extension is 56748, the email address is csatalk@uoguelph.ca and the website is located at <http://www.csa.uoguelph.ca>. The day-to-day operations of the Central Student Association are coordinated by the 5 executive and 3 staff members. Executive members can be contacted at the following on-campus extensions and email addresses:

- **Academic Commissioner** - csaacademic@uoguelph.ca - x56742
- **External Commissioner** - csaext@uoguelph.ca - x58328
- **Local Affairs Commissioner** - csalocal@uoguelph.ca - x54407
- **Finance and Human Resources Commissioner** - csaadmin@uoguelph.ca - x54408
- **Communications Commissioner** - csatalk@uoguelph.ca - x56376

Canadian Federation of Students

The C.F.S. is the national voice of students, representing more than 400,000 students across the country. The C.F.S. lobbies the federal government for changes which are aimed at making post-secondary education more accessible to all students. They provide research documents, campaigns, and services for all members across the country.

Canadian Federation of Students-Ontario

The C.F.S.-O. is the provincial voice of students, representing more than 200,000 students across the province. The C.F.S.-O. lobbies the provincial government for changes which are aimed at making post-secondary education more accessible to all students. They provide research documents, campaigns, and services for all members across the province.

Other Student Groups

Other important groups on campus include College Student Governments, Interhall Council, the Guelph Campus Co-operative, and the Ontario Public Interest Research Group. All of the above organizations combine to make Guelph one of the most active campuses in the country. We hope that you continue in that tradition, and come on up to the C.S.A. office (University Centre 274) or give us a call at extension 56748. Remember that your education does not end when class is over. So make a difference in your university experience by getting involved with your student association.

Student Health Services

Student Health Services, located in the John T. Powell Building, provides comprehensive medical and healthcare services to all students and their immediate families. Student Health Services provides acute care intervention and continuing care for any health related problems. Health Services has a multi-disciplinary team that includes family physicians, psychiatrist, nurses, dietitians, and health educators. In addition to appointment clinics, specialty programs include the Wellness Centre, Walk-in Clinic, a dispensary and immunization clinics.

Students are required to bring their OHIP card, other provincial health plan information or UHIP card when attending Health Services for care.

To make an appointment, for general enquiries, hours of operations or for after-hour care information call extension 52131.

Wellness Centre

It is a student-run resource centre providing information on alcohol consumption, body image, eating disorders, drugs, smoking, human rights, LGBTQ issues, mental health, sexual health, physical health, nutrition and spirituality. The Wellness Centre is located on the second floor of the J.T. Powell building and is open to drop-ins Monday-Friday from 8:30am to 4:30pm. The centre is staffed by trained Peer Helpers and volunteers and guarantees confidentiality. More information can be found at The Wellness Centre website <http://www.wellnesscentre.uoguelph.ca/index.html>.

Students can reach The Wellness Centre regarding questions or concerns by calling 519-824-4120 ext 53327, or by email at wellness@uoguelph.ca. To contact the Wellness Educator, Melanie Bowman, please call 519-824-4120 x 56046 or email at mbowman@uoguelph.ca.

Student Housing Services

Living on Campus

Student Housing Services wants you to feel that residence is your home; a place where you can study, develop lasting friendships, become involved in University activities, or just relax. Each building has a professional Residence Manager and Residence Life Staff comprised of students. They are there to meet you in September, introduce you to others in the building, and act as a support resource throughout the year.

Residence living is convenient. A full range of services are provided to residence students. Each room is completely furnished and includes a telephone with voicemail and high speed internet access. Residence buildings are equipped with laundry facilities, study rooms, lounges, and other common spaces. Renowned for its excellence in food service, Guelph provides 14 different on-campus food facilities including dining halls that cater mainly to residence students.

A variety of living accommodation styles are available: study intensive areas, substance-free areas, co-educational and all-female residence halls including traditional residence halls, a building of self-contained suites, modern townhouses and two sites for students with families. Buildings range in size and character: from a small living environment for 50 students, to a unique modern residence complex which houses almost 1,800 students.

The University of Guelph has several residence learning communities including La Maison Francaise, Arts House, International House, Eco House, Themed Living Communities and Academic Clusters. Clusters are small groups of first-year students in the same academic program, who share classes, living space and friendships.

Family Housing

Accommodation for couples and students with families is available in apartment and townhouse units located on two sites near the west end of campus. With close proximity to campus and a strong sense of community, these facilities are in very high demand. If you are considering applying for Family Housing, please contact the Family Housing Office (ext. 52551) or email famrent@uoguelph.ca.

Further Information

For further information on individual residences and application procedures, please refer to the University of Guelph Admissions Handbook or contact:

**Student Housing Services**, University of Guelph, Guelph, Ontario, N1G 2W1
Telephone: (519) 824-4120, extension 58701
Fax: (519) 767-1670
E-mail: housing@uoguelph.ca
Web site: <http://www.housing.uoguelph.ca/page.cfm>
Student Life

Student Life promotes learning that has a lasting and transformative impact on students and society. The department offers a range of programs and services that help students make a successful transition to, through and from university life and study. We help students explore their leadership capacity, make lasting connections on campus and beyond, and develop skills that are critical to success beyond university. Whether attending a workshop, participating in a community-engaged learning placement or helping other students to navigate their way through the university system there are many opportunities for students to contribute to campus life and to gain new knowledge and experiences.

For further information, please visit http://www.studentlife.uoguelph.ca The department’s main offices are located on the south side of the third floor in the University Centre.

Aboriginal Resource Centre, provides a warm and caring environment – a home away from home – for all Aboriginal students (First Nations status and non-status, Inuit and Métis) and the campus community. Programs and services include: advising and support such as the Visiting Elder Program; programs to help with the transition to university life and study including STARTAboriginal; cultural and traditional workshops including Learning Circles; Learning on the Land and Aboriginal Awareness Week; study support and tutoring assistance; bursary and scholarship information; and research support.

Centre for New Students assists incoming students with the transition to university life with particular attention to those who experience greater challenges. Programs and services include: a continuum of orientation programs including STARTonline.ca and Orientation Week; as well as on-going supports that promote integration into the campus community, optimal use of campus resources and mentoring by upper year students, such as through Off Campus Connection, Back on Track, Bounce Back and the Pursuit Project.

Leadership & Community Engagement fosters leadership, community engagement and social change through active collaboration and meaningful learning experiences. This unit challenges students to imagine what is possible, to seize opportunities to deepen their learning, and to effect individual and collective transformation as active, global citizens. Programs and services promote involvement through Leadership Education and Development, the Peer Helper Program and Project Serve (locally, nationally and internationally). Civic engagement opportunities promote meaningful connections with the community through everything from social action to voting.

The Information Desk, is located at the South Entrance to the 1st floor of the University Centre and provides information about where to locate university programs and services; sells tickets for Guelph Transit and GO Transit; and acts as a general source of information about campus activities.

Office of Intercultural Affairs includes the International Student Advisor who serves the needs of international students, visiting scholars, new immigrants and refugees with common challenges encountered in areas such as adapting to life in Canada, housing needs, academic concerns, financial difficulties and faculty-student relations. In addition, this office provides Intercultural Programming that spans educational events and workshops that support international students and students of diverse racial backgrounds in their transition to university life, connect students with cultural organizations in the local community, highlight the benefits of cultural diversity, and promote global citizenship.

Off Campus Living maintains listings of various types of accommodation in the Guelph area. The office can help you to look for housing, can advise or make referrals on landlord/tenant issues, and has information that can make your housing search, and getting settled in, easier.

OUTline is a resource and support service specializing in topics relating to sexual orientation and gender identity. Services include a support phone line, a question-and-answer blog, educational workshops, awareness events and online resources.

Student Rights and Responsibilities

Student membership at the University of Guelph is associated with fundamental rights and responsibilities intended to maintain the integrity of the University as a community for learning. Staff, faculty and students co-operate to sustain an educational environment that promotes individual learning and development. The University is responsible for providing the resources and opportunities that students require to succeed.

The University accepts that you are able to make responsible decisions regarding your own ethical and social behaviour. The purpose of these regulations is to provide for an environment that supports personal and intellectual growth. These regulations are intended to recognize your rights as a student and the rights of others, while also identifying certain responsibilities of students that are a part of the exercise of these rights. These regulations apply to all students who are engaged in University-sanctioned activities, and may apply to off-campus conduct, so long as the violation materially affects the University.

This brochure outlines the basis of conduct considered to be consistent with the goals and well-being of the University community. The code of conduct was developed collaboratively by students, staff and faculty and is regularly reviewed by the entire University community.

For the purposes of Student Rights and Responsibilities, a student is any person registered in an undergraduate or graduate program at the University of Guelph, or otherwise taking credit or non-credit courses offered by the University, or any person who was a student at the time the alleged offence occurred. Allegations involving non-academic offences for students registered in University of Guelph-Humber programs are handled under the procedures for Humber College.

The term A University of Guelph community @, as referenced in this document, includes the regional campuses at Alfred, Kemptville and Ridgetown.

As a student, you have the RIGHT to access the judicial system if a violation of this policy has occurred, whether that violation has occurred on or off campus, provided that the violation affects your ability to use and enjoy University facilities. In addition, University organizations like Campus Police or Student Housing Services may charge students under this policy.

University Community Principles

The University of Guelph is dedicated to the advancement of learning and the dissemination of knowledge; the intellectual, social, moral and physical development of its members; and the betterment of society (University of Guelph Act, 1964). These overall goals commit us to three central values:

- The development of all members of this University community, which implies and pursue the Learning Objectives* established by the University in the context of your select courses based on academic program requirements*;
- Consult your academic advisor (Program Counsellor, Departmental Advisor, Graduate Advisor) to recognize your rights as a student and the rights of others, while also identifying certain responsibilities of students that are a part of the exercise of these rights. These regulations provide the resources and opportunities that students require to succeed.
- Centre for New Students assists incoming students with the transition to university life with particular attention to those who experience greater challenges. Programs and services include: a continuum of orientation programs including STARTonline.ca and Orientation Week; as well as on-going supports that promote integration into the campus community, optimal use of campus resources and mentoring by upper year students, such as through Off Campus Connection, Back on Track, Bounce Back and the Pursuit Project.
- Leadership & Community Engagement fosters leadership, community engagement and social change through active collaboration and meaningful learning experiences. This unit challenges students to imagine what is possible, to seize opportunities to deepen their learning, and to effect individual and collective transformation as active, global citizens. Programs and services promote involvement through Leadership Education and Development, the Peer Helper Program and Project Serve (locally, nationally and internationally). Civic engagement opportunities promote meaningful connections with the community through everything from social action to voting.
- The Information Desk, is located at the South Entrance to the 1st floor of the University Centre and provides information about where to locate university programs and services; sells tickets for Guelph Transit and GO Transit; and acts as a general source of information about campus activities.
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- Off Campus Living maintains listings of various types of accommodation in the Guelph area. The office can help you to look for housing, can advise or make referrals on landlord/tenant issues, and has information that can make your housing search, and getting settled in, easier.
- OUTline is a resource and support service specializing in topics relating to sexual orientation and gender identity. Services include a support phone line, a question-and-answer blog, educational workshops, awareness events and online resources.

Student Rights and Responsibilities

You have the RIGHT to engage in free intellectual enquiry and, within the limits of the materials and human resources and approved University protocols, to access the resources necessary to plan and accomplish your educational and career objectives. You have the RESPONSIBILITY to:

- pursue the Learning Objectives* established by the University in the context of your own program and goals;
- adhere to the schedule of dates* and academic and non-academic regulations;
- select courses based on academic program requirements*;
- consult your academic advisor (Program Counsellor, Departmental Advisor, Graduate Coordinator) or the relevant Academic Review Committee if extenuating circumstances affect your academic performance;
- abide by the University's Policy on Academic Misconduct.1

1 Refer to the Associate Diploma Calendar; Undergraduate and Graduates calendars, available electronically at http://www.uoguelph.ca/registrar/calendars/.

Offenses

I. Civil/Criminal Statutes.

You retain your RIGHTS as a citizen when you become a member of the University community. You have the RESPONSIBILITY to abide by Federal, Provincial and Municipal statutes in addition to all University regulations and policies, including but not limited to the Acceptable Use Policy and Guidelines for University of Guelph Computing and Networking Facilities1, Residence Community Living Standards, and the University of Guelph Human Rights Policy2.

The University's interest may cause it to initiate an internal judicial process whether or not criminal or civil action is taken with respect to the same incident(s).

II. Offenses against Persons.

1. Bodily Harm

You have the RIGHT to an environment that is safe and free from unwanted attention. You have the RESPONSIBILITY not to engage in activities likely to endanger the health or safety of yourself or another person, or to assault or threaten to assault another person or to knowingly cause another person to fear bodily harm.

2. Harassment

You have the RIGHT to an environment characterized by mutual respect. You have the RESPONSIBILITY to treat all members of the University community with respect and without harassment, bullying or hazing. Harassment is defined as any attention or conduct (oral, written, virtual, graphic or physical) by an individual or group who knows, or ought reasonably to know, that such attention or conduct is unwelcome/unwanted, offensive or intimidating. The University views offenses involving harassment against employees or agents of the University in the lawful execution of their duties to be particularly grievous.

3. Human Rights

You have the RIGHT to an environment where the inherent worth of all individuals is respected, regardless of race, sex, national or ethnic origin, religion, age, sexual orientation or mental or physical disability. You have the RESPONSIBILITY to respect the diversity that exists in the University community. The University views actions that undermine the dignity and worth of any individual or group based on the above grounds to be particularly grievous.
4. Sexual Assault
You have the RIGHT to an environment free from sexual violence, coercion or harassment. You have the RESPONSIBILITY to not assault any person sexually, threaten any person with sexual assault, or subject any person to sexual harassment.

III. Offences Involving Life Safety Equipment
You have the RIGHT to a safe and secure environment. You have the RESPONSIBILITY not to tamper or interfere with, discharge or activate any life safety equipment on campus unless for the purposes of responding to an emergency. Life safety equipment includes but is not limited to fire extinguishers, fire alarms and emergency call stations.

Each offence under this section carries a minimum fine of $500, in addition to possible charges under the Criminal Code of Canada or City of Guelph bylaws and the cost for responding Fire Department vehicles.

IV. Offences involving Property.
1. Facilities, Telecommunications, Library, University Property and Private Property
You have the RIGHT to the use of University facilities. You have the RESPONSIBILITY to:
   a. respect posted hours and limits on entry where such conditions exist;
   b. abide by the University smoking policy, which includes not smoking inside any University building or vehicle, or within nine metres of any building entrance or exit, loading dock, fresh-air intake or compressed-gas storage area;
   c. not destroy, tamper with, deface or vandalize, monopolize, unlawfully access, remove, or possess property not your own, including, but not limited to, Library material, computing facilities, telecommunication systems and emergency telephones.

2. Permits and Identification
You have the RIGHT, upon payment of any required fee, to access certain special services as a University community member. You have a RESPONSIBILITY not to acquire or use meal cards, University identification, computer identification, bus passes or parking permits that are stolen, cancelled, lost, falsified, altered or expired.

3. Guests and Visitors
   Unless otherwise stated in University policy, you have the RIGHT to have guests and visitors from off campus. You have the RESPONSIBILITY to:
   a. ensure that your guests or visitors comply with all existing University sign-in requirements (for example Student Housing Services and licensed establishments);
   b. ensure that your guests or visitors comply with all the terms of the Student Rights and Responsibilities policy, or any Federal, Provincial, Municipal or University statute, bylaw or policy, while on University property. You will be held responsible for any breach of the rules committed by your guests on campus.

V. Disruption.
You have the RIGHT to an environment that, while safeguarding dissent, is free from interference and disruption. You have the RESPONSIBILITY not to interfere with the normal functioning of the University, nor to intimidate, interfere with, threaten or otherwise obstruct any activity organized by the University, including classes, or to hinder other members of the University community from being able to carry on their legitimate activities, including their ability to speak or associate with others.

VI. Drugs, Alcohol and Firearms
1. Drugs. - You have the RIGHT to a drug-free environment, especially in student housing. You have the RESPONSIBILITY to abide by the Federal and Provincial statutes pertaining to illegal drugs and controlled substances. The possession, use or trafficking of illegal drugs or controlled substances is prohibited, and each activity may form the basis of a separate charge.

2. Alcohol - The purchase, possession and/or consumption of liquor by those under the age of 19 is prohibited. Sale or use or possession of liquor is prohibited on campus other than in those areas where it has been specifically permitted, or in licensed premises.

3. Firearms and other Weapons. Firearm licenses are required for the possession of any firearm on University property. The University does not recognize any form of startup or concealed carry permits. Your RESPONSIBILITY is to abide by all local and federal laws and regulations governing the possession of firearms.

JUDICIAL PROCESSES
Every student has a RIGHT to a full and fair hearing, by an impartial tribunal, of the merits of any charge brought against him or her under these regulations. Every student who is charged with a non-academic offence has a right to present a full and complete defence and to be accompanied by an advisor (or legal counsel) at any hearing of the charge against him/her. Students charged are presumed innocent until found guilty on the basis of evidence presented, using the balance of probabilities as the standard of proof.

The University has devised a process that provides for appropriate disciplinary penalties to be imposed. These penalties may include fines (up to $1,000), probationary periods, warnings and, in extreme cases, a recommendation for suspension or expulsion.

Every student has a RESPONSIBILITY to comply with summons or decision and order of the Judicial Committee and/or Hearing Board. Failure to do so may constitute a breach of Student Rights and Responsibilities.
The Programming Department offers a wide selection of entertainment and cultural events to the University Community. As well, this department offers students, staff and faculty assistance in setting up their own entertainment programs on campus. The Performance Season features concerts and plays held both on and off campus at such locations as the River Run Centre, War Memorial Hall and Peter Clark Hall.

The Programming Office presents a number of weekend fairs of interest to students, faculty and staff. The most successful and popular of these has proven to be Fair November, our annual fall Craft Show.

On Level 0 the facilities include the Music Practice Room, the Off Campus Student Lounge, Mail Services, and Loading Dock with courier pick up and delivery service. Peter Clark Hall, meeting rooms 004 and 005 are located on this level and can be booked through the University Centre Administration Office.

Level 1 houses many businesses including a travel agency, a dentist, a chiropractor/massage therapist, U. C. Vision, Student Insurance Office, a hair salon, a sign making shop, a photographer and bank machines. Also located on Level 1 is the Guelph Resource Centre for Gender empowerment and Diversity, an information desk, the 103 meeting room and the various courtyard activities and sales.

On Level 2 of the University Centre, office space and operational facilities are provided for the University Centre Building Administration and the Central Student Association. Space and operational facilities are also provided for the various clubs and organizations of the Central Student Association, the Ontarian (a weekly campus tabloid newspaper) and CFRU-FM or Radio Gryphon. The CUPE 3913 office is also located on this level.

Levels 3 holds many meeting rooms which can be booked through the University Centre Administration office. The CUPE 1334 office is also located on this level. Administrative offices are located on this level and include the Office of Registrarial Services, Co-operative Education & Career Services, Student Life and Counselling Services, Undergraduate Academic Information Centre, and The Centre for Student's with Disabilities.

Level 4 North houses meeting rooms and the Steelworkers Union Office and Catering and Conference Services for the University.

Level 4 South houses the University's Administrative Offices.

Level 5 North houses the University Club (formerly the Faculty Club), the Graduate Students' Association and the Older-Than-Average Students Lounges. Other facilities include the Graduate Students' Association Administrative Office, the Chapel and the Professional Staff Association.

Level 5 South houses the University's Financial Services, Purchasing and Human Resources Departments.

The University Club (formerly the Faculty Club), the Graduate Students' Association and the Older-Than-Average Students have lounges on Level 5 of the University Centre. Administrative offices are located on Levels 3, 4 and 5 of the University Centre including the Office of Registrarial Services, Office of Student Affairs, Cooperative Education & Career Services, Student Life and Counselling Services and Financial Services.

The University Centre is a meeting place for people engaged in a wide spectrum of activities. It is the focal point or "living room" for the University Community and was built for the benefit of its many user groups.

University ID Cards

A University ID Card is issued to each student registered at the University. The following regulations apply:

1. The University of Guelph Card must have: the University of Guelph logo; the cardholder's surname, initials and identification number; a colour photograph of the cardholder; the cardholder's signature; a bar code for Library check-out privileges; a magnetically encoded stripe on the back of the card; and a brief summary of the rules and regulations for use of the card.

2. The Card is the property of the University of Guelph and may only be used for identification purposes.

3. The Card is not transferable and the cardholder will be responsible for all use made of the Card unless and until written notice is received by Enrolment Services, Office of Registrarial Services.

4. Presentation of the Card will be required before certain University services will be extended. University services may be denied to an individual who does not present a valid card.

5. The Card may not be retained as collateral for any University service except for those services holding and displaying a permit, signed by the Registrar authorizing the withholding of the student, faculty or staff identification card for short periods while that person is utilizing the services offered.

6. A University Card will be issued to each new student. New students who do not obtain a card must contact the ID Card Centre at Enrolment Services, level 3, University Centre for assistance.

7. Loss or finding of the University Card should be reported to the ID Card Centre at Enrolment Services.

8. A service charge will be levied for replacement cards.
## XV. Summary of Attendance

### November 1, 2011 Enrolment Statistics and Systems, Office of Registrarial Services

#### Undergraduate Programs (UG) - Full-time Enrolment by Semester Level

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<th>Program</th>
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<th>3</th>
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<tr>
<td><strong>Total</strong></td>
<td><strong>127</strong></td>
<td><strong>985</strong></td>
<td><strong>191</strong></td>
<td><strong>91</strong></td>
<td><strong>188</strong></td>
<td><strong>39</strong></td>
<td><strong>183</strong></td>
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<td><strong>1,857</strong></td>
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#### Undergraduate Programs (UG) - Part-time Enrolment by Semester Level

<table>
<thead>
<tr>
<th>Program</th>
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<th>3</th>
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<td>101</td>
<td>103</td>
<td>185</td>
<td>59</td>
<td>183</td>
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<td>9</td>
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<td>27</td>
<td>77</td>
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<td>2</td>
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<td>1</td>
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<td>B.Comm.</td>
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<td>0</td>
<td>0</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>127</strong></td>
<td><strong>188</strong></td>
<td><strong>40</strong></td>
<td><strong>41</strong></td>
<td><strong>40</strong></td>
<td><strong>40</strong></td>
<td><strong>40</strong></td>
<td><strong>40</strong></td>
<td><strong>1,857</strong></td>
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### Guelph-Humber Undergraduate Programs (UGH) - Full-time Enrolment by Semester Level

<table>
<thead>
<tr>
<th>Program</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8+</th>
<th>Total</th>
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<tbody>
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<td>BAAG</td>
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<td>191</td>
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<td>188</td>
<td>54</td>
<td>985</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>8,787</strong></td>
<td><strong>1,575</strong></td>
<td><strong>1,575</strong></td>
<td><strong>1,575</strong></td>
<td><strong>1,575</strong></td>
<td><strong>1,575</strong></td>
<td><strong>1,575</strong></td>
<td><strong>1,575</strong></td>
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### Guelph-Humber Undergraduate Programs (UGH) - Part-time Enrolment by Semester Level

<table>
<thead>
<tr>
<th>Program</th>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8+</th>
<th>Total</th>
</tr>
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<td>41</td>
<td>60</td>
<td>14</td>
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<td>0</td>
<td>127</td>
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## XV. Summary of Attendance

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<th>Program</th>
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<th>2</th>
<th>3</th>
<th>4</th>
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<th>6</th>
<th>7</th>
<th>8+</th>
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<tbody>
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<td>0</td>
<td>4</td>
<td>0</td>
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<td>10</td>
<td>20</td>
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| UGH Part-Time Enrolment | 450 |

### Graduate Programs (GR) Enrolment

<table>
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<tr>
<th>Program</th>
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<th>Part-time</th>
<th>Total</th>
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<tbody>
<tr>
<td>D.V.Sc.</td>
<td>49</td>
<td>4</td>
<td>53</td>
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<tr>
<td>Graduate Diploma in Veterinary Medicine</td>
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<td>2</td>
<td>8</td>
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<tr>
<td>M.A.</td>
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<td>367</td>
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<td>M.A.N.</td>
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<td>10</td>
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<td>M.A.SC.</td>
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<td>M.B.A.</td>
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<td>M.B.N.F.</td>
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<td>M.B.S.</td>
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<td>M.F.A.</td>
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<td>M.L.A.</td>
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<td>50</td>
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<td>M.P.H.</td>
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<td>46</td>
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<td>M.P.L.A.</td>
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<td>5</td>
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<td>M.SC.</td>
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<td>M.S.P.L.</td>
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<td>0</td>
</tr>
<tr>
<td><strong>Total GR Enrolment</strong></td>
<td><strong>2,383</strong></td>
<td><strong>251</strong></td>
<td><strong>2,634</strong></td>
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</tbody>
</table>

### Total University Enrolment

<table>
<thead>
<tr>
<th>Type of Enrolment</th>
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<tr>
<td>UG Full-time Enrolment</td>
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<td>UG Part-time Enrolment</td>
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<td>UGH Full-time Enrolment</td>
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<td>GR Full-time Enrolment</td>
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<tr>
<td>GR Part-time Enrolment</td>
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<td>Total GR Enrolment</td>
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<td><strong>TOTAL UNIVERSITY ENROLMENT</strong></td>
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</tbody>
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XVI. Administration and Faculty

Administration and Faculty

Chancellor Emeritus
Hon. L.M. Alexander, Chancellor Emeritus
Hon. P. Wallin, Chancellor Emerita

The Board of Governors

(Vacant), Chancellor
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K. Bardswick, Vice-Chair
T. Burt, Vice Chair
B.W. Barrington
G. Blais
M. Chambers
E. Ellis
E. Gatsinos
K. Golding
G. Gray
J. Kissick
K. Kuwahara
P. MacGowan
V. McLaughlin
W. Millar
K. Stevenson
M. Straathof
A. Sullivan
A.J.S. Summerlee, President
T. Walker
C. Whitfield
J. Wilcox
V. Hodgkinson, Secretary

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W. Brock, Toronto
W. Curnoe, Guelph
C.H. Franklin, Toronto
N.W. Hoag, Guelph
T.L. Jones, Toronto
M.H.M. MacKinnon, Guelph
E.B. MacNaughton, Guelph
A.R. Marchment, Toronto
T.A. McEwan, Mississauga
A. Meek, Guelph
K. G. Murray, Guelph
N.O. Nielsen, Guelph
R.L. Norris, Guelph
J.C. Rennie, Guelph
N.R. Richards, Guelph
F. Ramprashad, Guelph
K. Ronald, Guelph
J.W. Skinner, Guelph
C.M. Switzer, Guelph
J.M. Wardlaw, Guelph
W.C. Winegard, Guelph

Medal of Merit

H.D. Ayers, Guelph
P. Basmur, Toronto
G.D. Bedell, Camden, Maine, U.S.A.
M. Beverley Burton, Guelph
J.L. (Iain) Campbell, Guelph
H.G. Downie, Guelph
L. Evans, Guelph

S. Hils, Guelph
F.D. Horney, Guelph
T.J. Holland, Guelph
J.L. Hunt, Guelph
B.M. McCraw, Guelph
J.T. Powell, Guelph

John Bell Award

M. Baker, CPES
J. Christensen Hughes, CME
J. Cunsolo, CPES
W.T. Dickinson, CPES
T.F. Funk, OAC
T.J. Gillespie, OAC
G.L. Lange, CPES
E. McFarland, CPES
T.E. Michaels, OAC
A.L. Middleton, CBS
D.M. Paramaskas, COA
D.M. Prescott, CSAHS
G.A. Stelter, COA
R.R. Stoltz, OAC
H.J. Swatland, OAC
J. Weiner, CPES

The Lincoln Alexander Medal of Distinguished Service

W. Brock, Toronto
G.L.E. Nixon, St. Catharines
H. Vander Pol, Blenheim
S. Surgeoner, Fergus
F. M. Walsh, Toronto
T. K. Warley, Guelph
W.C. Winegard, Guelph

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A.E. Hollings, Research Associate, B.A. (TOR.), B.SC., M.SC. (GUELPH)
M. Kupferschmidt, Research Associate, B.A. (GUELPH)
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J. Shoveller, Vice-President (Advancement), B.A. (W. LAUR.), M.B.A. (IVEY)

Office of the Vice-President (Finance and Administration)
D. O'Leary, Vice-President (Finance and Administration), B.B.A. (UNB.)
J. Miles, Assistant Vice-President (Finance and Services), B.A. (WAT.), C.M.A.
M. Harlcy, Assistant Vice-President (Human Resources)
R.J. Carter, Assistant Vice-President (Physical Resources)

Office of the Vice-President (Research)
K. Hall, Vice-President (Research), B.SC., M.S.C. (QU.), PH.D. (NSW)
J. R. Livermore, Acting Associate Vice-President (Research Services), Professor, Chair of the Department, B.A.(TOR.), M.A., PH.D. (BR.COL.)
R. Moccia, Associate Vice-President (Research, Agri-Food and Partnerships) and Professor, M.S.C. (GUELPH)

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D. Bruce, Dean and Professor, B.A. (ALBERTA), M.A. (QU.), PH.D. (TOR.)

College of Biological Science
M. Ems, Dean, B.SC., P.H.D. (SHEFFIELD)

College of Management and Economics
J. Christensen Hughes, Dean and professor (Department of Business), B.COMM. (GUELPH), M.B.A., PH.D (YORK)

College of Physical and Engineering Science
A. Vannelli, Dean, B.SC., M.S.C. (CONCORDIA), PH.D. (WAT.), PEMG.

College of Social and Applied Human Sciences
K.J. Daly, Dean, B.A. (CAR.), M.SC. (GUELPH), PH.D. (MCM.)

Ontario Agricultural College
R.J. Gordon, Dean and Professor, B.SC., M.S.C. (MCG.), PH.D. (GUELPH)

Ontario Veterinary College
E. Stone, Dean, D.V.M. (CALIFORNIA), M.S. (GEORGIA), M.P.P. (DUKE)

Faculty of Graduate Studies
A. Clarke, Assistant Vice-President (Graduate Studies & Program Quality Assurance), B.SC., M.S.C., PH.D. (WAT.)

University of Guelph-Humber
J. Walsh, Vice-Provost Academic, University of Guelph-Humber, B.A. (ENG.), M.B.A., PH.D (WONT.)

Administrative Departments

Alumni Affairs and Development
J. Barrett, Associate Director, Major Gift Strategy, B.A., M.A. (GUELPH)
K. Bertrand, Assistant Vice-President, (Major Gift Advancement), B.A.H. (QUEENS)
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L. Woodcock, Associate Director, Annual Giving, B.SC.H. (QUEENS), M.A.(GUELPH)

Arboretum
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Glossary

Academic Evaluation
The Academic Evaluation Report is a report of a student’s academic progress towards the completion of a specified program and specialization.

Academic Sanction
Academic sanction is the penalty applied to students who fail to make payment, or suitable arrangements for payment, of their University account. Students on academic sanction may not receive semester examination results or official transcripts; may not receive clearance to graduate; and/or may not be allowed to register for a subsequent semester.

Academic Session
See Academic Term.

Academic Term
An academic term is an independent academic period of 15 weeks, half of an academic year. Also referred to as a semester (see definition below).

Academic Year
An academic year is two semesters; undergraduate traditionally classified as first year (freshman), second year (sophomore), third year (junior), or fourth year (senior). Under the semester system this classification has less meaning than under a whole year system but is occasionally used to indicate the level at which a student has arrived.

Add Period
The add period takes place at the beginning of the semester where students are permitted to add courses for the current semester.

Assigned Grade
An assigned grade is a numerical grade based on the instructor’s recommendation and granted at the discretion of the Program Committee to students who have not completed course requirements.

Audit
An audit is registration in a course for which degree or diploma credit is not sought. Audited courses are not reported on the official transcript or academic record.

Baccalaureate
Baccalaureate refers to an undergraduate degree awarded by the University upon successful completion of the requirements of a program.

Certificate (degree level)
See Secondary Area of Study.

Class Days
Class days are used to express deadlines. Class days are calculated from the start of the regular class schedule. (See Schedule of Dates).

Class Level
Class level is a determination of a student’s progression in an academic program by credit weights with increments of 2.50.

Clearance to Graduate
Clearance to graduate denotes that an applicant for graduation has satisfied all program requirements and is recommended for graduation.

Cohort Year
Cohort year refers to the academic calendar year for your first admission to the university OR the calendar year for subsequent readmission to the same program or a new program. Tuition fees are assessed based on this assigned year.

Compassionate Grounds
Compassionate grounds are reasons of a serious personal nature which, subject to the approval of a committee or authorized person, justifies a variation of the rules in the case of a particular student.

Core course
A core course is one which is listed in a schedule of studies in the Undergraduate Calendar and identified as being a required course for a program.

Corequisite
A corequisite is a course where the content is integrated with that of another course such that the courses must be taken simultaneously.

Course
A course is an organized unit of study extending over a semester, (e.g. Economics ECON*1100).

Course Attempt
A course attempt reflects the situation where a student has completed courses either satisfactorily or unsatisfactorily.

Course Equate
Equate indicates a course identical to the one under which it is listed. The course may have been re-numbered or may be cross-listed under two subject areas. Students will not be permitted to register in equated courses.

Course Level
Course level denotes the seniority of a course. 1000-level and 2000-level courses are considered first and second year courses. 3000-level and 4000-level courses are considered senior level courses.

Course Load
Course load denotes the total weight of the credits in which a student is enrolled determining part-time or full-time status.

Course Restriction
A restriction is a “rule” that is placed on the computer system (Colleague) at the direction of an academic department so that particular students may not register in particular courses. The course may be restricted because there is sufficient overlap in content with another course so that it is inappropriate for the student to take a similar course for credit. In a different instance, the course may be restricted by “Instructor Consent” so that the student must discuss the special requirements of the course with the instructor before enrolling. Or, alternatively, the restriction may reflect a “Priority Access” designation for enrollment management purposes. (See Priority Access).

Course Section
A course section is a subgroup of a course that denotes time and location.

Course Selection
Course selection is the process by which students select course sections for the succeeding semesters.

Credit
A credit is a unit of academic measurement equivalent to a single-weighted one-semester course.

Credit Standing
Credit standing (CRD) denotes the student has successfully completed a course, but was not assigned a numerical grade.

Cumulative Average
Cumulative average is calculated by dividing the weighted course total by the total credit attempts over all semesters.

Degree Program
See Program and Baccalaureate.

Deferred Privilege
A deferred privilege (DEF) is a temporary extension of time granted at the discretion of a Program Committee to a student for completion of the requirements of a course, normally for illness or compassionate reasons.

Diploma (degree-level)
See Secondary Area of Study.

Diploma Program Calendar
The Diploma Program Calendar is an annual publication containing official information about Associate Diploma Programs and regulations of the University of Guelph and its colleges at Alfred, Kemptville, and Ridgetown.

Double-weighted Course
A double-weighted course is a course that is taken in 1 semester, but counts as 2 course attempts for classification, continuation of study and calculation of fees. A double weighted course cannot be split.

Drop Period

The drop period for single semester courses starts at the beginning of the add period and extends to the 40th class day where students are permitted to drop a course for the current semester. The drop period for two semester courses starts at the beginning of the add period in the first semester and extends to the last day of the add period in the second semester. See Two-Semester Courses.

Elective
An elective is a course, acceptable within the program but chosen at the discretion of the student.

Equate
See Course Equate.

Faculty Advisor
See Chapter VII - Academic Advising.

Grade Report
A grade report is released by the Registrar to each student at the conclusion of a semester via WebAdvisor. It notes the courses attempted and the grades assigned (if applicable).

Hiatus
See Withdrawal.

In-course Student
In-course refers to a student enrolled in a program of study at the University.

Mailing Address
The mailing address is a temporary address used for mailing if one is recorded; otherwise the home address is used.

Minor
See Secondary Area of Study.

New Student
New student refers to a student who has never before been registered at the University of Guelph.

Prerequisite
A prerequisite is a prior requirement for entry into a course. Where a course is specified as a prerequisite, pass standing in the course is required.

Priority Access
Priority Access is the process by which a department implements course restriction rules in order to limit registration in a course where enrolment demand habitually exceeds course capacity and where there is demonstrated need to restrict access to a particular cohort of students on a priority basis. In general, course restrictions are clearly defined in the calendar course listings so that students are advised in advance of the intended audience for the course.

Program
A program is a structure of courses leading to a University degree (e.g. B.A.Sc. program).

Program Counsellor
See Chapter VII - Academic Advising. The program counsellor is someone who assists students in the development of educational plans which are realistic and compatible with their life goals by helping to identify and assess alternatives and consequences of decisions, and providing interpretation of regulations applying to the specific degree program.

Registration
Registration is the official enrolment of students in the University for a particular semester, and includes the selection of course sections and the payment of tuition fees and, where appropriate, other University fees.

Required to Withdraw
See Restation.

Restricted Elective
A restricted elective is a course which must be chosen from a stated group of courses to satisfy the program requirements.

Restriction
See Course Restriction

Rustication
A defined period of time during which the student is not eligible to register in their current academic program as a result of an academic review decision. After the period of rustication the student must apply for re-admission to the University of Guelph.

Schedule of Dates
The schedule of dates is a list of significant dates at the University, approved by Senate.

Schedule of Studies
A schedule of studies is the requirements for specializations, majors, minors, and various levels of concentration of study within a degree program, including programs without specialization. Schedules of studies are completed within a specific degree program and must normally be declared by the start of semester 3. Students need to be aware that progress within a program and graduation with a degree from that program depends upon a) the degree program requirements, and b) the requirements for the declared schedule of studies.

Secondary Area of Study
An identified set and sequence of courses, and/or other units of study, research and practice within an area of disciplinary or interdisciplinary study, which is completed on an optional basis while fulfilling the requirements for the awarding of a degree, and may be recorded on the graduate’s academic record. The curriculum of a secondary area of study may be composed of elements of the core course offerings of a major, or may be a coherent package of courses organized around a theme, a course of study that bridges two or more disciplines, and/or a training program for a particular skill. Secondary Area may be a minor or degree-level certificate or diploma.

Semester
A semester is an independent academic period of 15 weeks, half of an academic year; similar to a term at other universities. Summer semester is from May to August. Fall semester is from September to December. Winter semester is from January to April.

Semester Average
Semester Average is calculated by dividing the weighted course total by the total credit attempts in the semester.

Semester Level
See Class Level.

Session
A session is an academic period of 7 weeks within the Summer semester, including 6 weeks of classes and 1 week of examinations. Courses presented during a session will be equivalent to a regular semester offering.

Specialization
For specialization see schedule of studies.

Subject
A subject is a defined sector of study composed of 1 or more courses within a discipline.

Summer Session
Summer Session is scheduled during May to August.

Supplemental Privilege
Supplemental privileges are granted at the discretion of the Program Committee, affording a student who has received a failing grade on the original course attempt, the opportunity to obtain credit for the course while retaining the original failing grade.

Transcript
A transcript is an official document prepared by the Registrar recording a student’s courses and grades.

Two-Semester Course
A two-semester course is a course that is taken over 2 continuous semesters and counts as 2 course attempts for classification, continuation of study and calculation of fees. Two-semester courses cannot be split.

Undergraduate Calendar
The undergraduate calendar is an annual publication containing official information about the undergraduate academic programs and regulations of the University.
Weighted Course Total

Weighted Course Total is the sum of the credit weights multiplied by the grade received in each course.

Withdrawal

Withdrawal of registration for an academic term after the start of classes.

Withdrawal with Failure

Withdrawal with failure may be applied to a course or an academic term. The notation "WF" will appear against the course(s) in the grade field on the official transcript.
Chapter XII Course Descriptions

- Interdisciplinary University -- UNIV*1200 - link to First Year Seminars - updated
- Marketing and Consumer Studies - MCS*2600 - PSYC*1200 added to the prerequisites
- Psychology -- PSYC*1010 prerequisites deleted and corequisites added

Chapter XVI Administration and Faculty

Changes and updates to various listings.

March 15, 2014

Updates for AODA compliance.