2011-2012 Undergraduate Calendar

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2011-2012 academic year, including the Summer Semester 2011, the Fall Semester 2011 and the Winter Semester 2012.

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

Contact Information:

University of Guelph
Guelph, Ontario, Canada
N1G 2W1
519-824-4120
http://www.uoguelph.ca

Revision Information:

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 1, 2011</td>
<td>Initial Publication</td>
</tr>
<tr>
<td>April 4, 2011</td>
<td>Second Publication</td>
</tr>
<tr>
<td>July 20, 2011</td>
<td>Third Publication</td>
</tr>
<tr>
<td>October 12, 2011</td>
<td>Fourth Publication</td>
</tr>
<tr>
<td>March 15, 2014</td>
<td>Updates for AODA Compliance</td>
</tr>
</tbody>
</table>
Disclaimer

University of Guelph 2011

The information published in this Undergraduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2011-2012 academic year, including the Summer Semester 2011, the Fall Semester 2011 and the Winter Semester 2012.

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.

In the event of a discrepancy between a print version (downloaded) and the Web version, the Web version will apply,

Published by: Undergraduate Program 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?

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 Undergraduate Program 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, his/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.

Table of Contents

I. Statement of Students' Academic Responsibilities .................................. 1

II. The University ......................................................................................... 2

- History ........................................................................................................ 2
  - University of Guelph-Humber .................................................................. 2
- Academic Organization ............................................................................... 2
- Learning Objectives ................................................................................. 2
- Mission Statement ................................................................................... 4
- University Governance ............................................................................ 4

III. Schedule of Dates .................................................................................. 5

- Summer Semester 2011 (12 Week Format) ............................................. 5
- Summer Session 2011 (6 Week Format) .................................................. 5
- Fall Semester 2011 ................................................................................ 5
- D.V.M. Fall Semester 2011 .................................................................... 6
- Winter Semester 2012 ............................................................................ 6
- D.V.M. Winter Semester 2012 ................................................................ 6

IV. Admission Information ........................................................................... 8

- Admission Requirements to University Programs in 2010 .................... 8
  - Semester One Admission ..................................................................... 8
- Advanced Standing Admission ............................................................... 9
- Advanced Standing Entry Points ............................................................. 10
- Application Procedure .......................................................................... 10
  - Applicants from Ontario Currently Enrolled in Secondary School ... 10
  - Applicants from Ontario Not Currently Enrolled in Secondary School 10
  - All Other External Students ............................................................... 10
  - Applying From Outside Canada ......................................................... 10
  - Applying From Another Campus of the University of Guelph ........ 10
  - Applying For Internal Transfer or Readmission ............................... 10
- Articulation Agreements .......................................................................... 11
  - Alfred Campus .................................................................................... 11
  - Algonquin College ............................................................................... 11
  - Associate Diploma programs - University of Guelph ...................... 11
  - Canadore College ............................................................................... 11
  - Centennial College ............................................................................. 11
  - Conestoga College Institute of Technology and Advanced Learning ... 12
  - Fanshawe College ............................................................................... 12
  - Georgian College Institute of University Partnerships and Advanced 12
    Studies ............................................................................................... 12
  - Humber College Institute of Technology and Advanced Learning ..... 13
  - Kemptville Campus ............................................................................. 13
  - Niagara College ................................................................................... 13
  - Nipissing University ............................................................................ 14
  - Northern Alberta Institute of Technology ......................................... 14
  - Province of British Columbia ............................................................. 14
  - Ridgetown Campus ............................................................................. 14
  - Seneca College .................................................................................... 14
    --Six Nations Polytechnic .................................................................... 14
  - Associate Diploma Programs ............................................................. 14
  - Communication of Admission Decisions ............................................. 14
  - Cooperative Education ........................................................................ 14
- Deadline Dates - Advanced Standing, Non-Degree and Limited Enrolment Programs ................................................................. 15
- English Proficiency ................................................................................. 15
  - 1. Test of English as a Foreign Language (TOEFL) ......................... 15
  - 2. International English Language Testing System (IELTS) ......... 15
  - 3. The Michigan English Language Assessment Battery (MELAB) 15
  - 4. Canadian Assessment of English Language (CAEL) ............... 15
  - 5. Advanced Level, English Language Certificate Program, University of Guelph ................................................................. 15
- Open Learning .......................................................................................... 15

  Post-Degree and Letter of Permission ..................................................... 15
  - Second Degrees .................................................................................. 15
    - Honours Equivalent ......................................................................... 16
  - Prior Learning Assessment .................................................................. 16
  - Readmission ........................................................................................ 16
  - Right of Selection ................................................................................. 16
- Specific Subject Requirements and Recommendations .......................... 16
  - University of Guelph Programs .......................................................... 16
  - University of Guelph-Humber Programs ......................................... 19
  - Submission of Documents ..................................................................... 19
    Use of Animals in Teaching ................................................................. 19

V. International Study ................................................................................. 20

Study Abroad Programs ............................................................................. 20
Exchange Programs ................................................................................... 20
International Letter of Permission - L.O.P. .............................................. 20
Semesters Abroad ...................................................................................... 20

VI. Schedule of Fees ................................................................................... 22

- Changes in Fee Schedule ....................................................................... 22
- University Fees ...................................................................................... 22
- Tuition Fees ............................................................................................ 22
- Meal Plan Fees ....................................................................................... 22
- Parking Fees ........................................................................................... 22
- Prior Learning Assessment .................................................................... 22
- Refunds ................................................................................................... 23
- Residence Fee ......................................................................................... 23
- Special University Fees .......................................................................... 23

VII. Academic Advising ............................................................................. 25

- Students .................................................................................................. 25
- Faculty Advisors .................................................................................... 25
  - Program Counsellors ......................................................................... 25
- Undergraduate Academic Information Centre ...................................... 26
- Council on Undergraduate Academic Advising .................................... 26
- Interpretation of University Academic Regulations .......................... 26
- Non-Academic Counselling ................................................................. 26
- Program Approval .................................................................................. 26

VIII. Undergraduate Degree Regulations and Procedures ....................... 27

- General Information ............................................................................... 27
- Academic Consideration, Appeals and Petitions ................................ 27
  - Process for Academic Consideration and Appeals ....................... 27
- General Information for Academic Consideration and Appeals .... 27
- Academic Consideration ....................................................................... 27
- Academic Accommodation of Religious Obligations .......................... 29
- Academic Accommodation for Students with Disabilities, Guidelines and Procedures ................................................................. 29
- Academic Load ....................................................................................... 30
  - Full-time .............................................................................................. 30
  - Part-time .............................................................................................. 30
- Academic Misconduct ........................................................................... 30
  - Education and Remediation ............................................................... 30
  - Offences ............................................................................................... 31
    - Penalties ........................................................................................... 32
    - Procedures ......................................................................................... 32
    - Appeals ................................................................................................ 33
  - Record of Academic Misconduct ....................................................... 34
  - Guidelines for Penalties for Academic Misconduct ....................... 34
- Academic Review Sub-Committee Procedures ..................................... 35
- Academic Standing ............................................................................... 35
  - Eligible to Continue ............................................................................ 35
    - Probationary ..................................................................................... 35
    - Required to Withdraw ...................................................................... 35
- Adding Courses ....................................................................................... 35
  - Course Requisite(s) ............................................................................ 35
  - Distance Education Courses ............................................................... 35
- Program Approval .................................................................................. 36
  - Regular Courses .................................................................................. 36
  - Two-Semester Courses ....................................................................... 36
- Address for University Communication ............................................... 36
  - Email Address ..................................................................................... 36
  - Home Address .................................................................................... 36
- Admissions .............................................................................................. 36
  - Associated Program Requirements .................................................. 36
  - Attendance at Class ............................................................................ 36
  - Auditing Courses ................................................................................. 36
  - Class Level Calculation ....................................................................... 36
- Continuation of Study ............................................................................. 36
  - Schedule 1 .......................................................................................... 36
  - Schedule 2 .......................................................................................... 37
- Course Sections ....................................................................................... 37
  - Department Chair's Responsibilities ................................................ 37
    - Registrar's Responsibilities .............................................................. 37
    - Student's Responsibilities ............................................................... 37
- Course Selection ..................................................................................... 37
  - New Students ...................................................................................... 37
  - In-Course Students ............................................................................. 38
- Dean's Honours List ................................................................................. 38
  - Deferred Privileges .............................................................................. 38
    Procedures for Deferred Privileges .................................................... 39
Table of Contents

Dropping Courses ................................................................. 39
Deadline Dates ......................................................................... 40
Instructor Notification ............................................................... 40
Refunds .................................................................................. 40
Regular Courses ........................................................................ 40
Two-Semester Courses ............................................................... 40
Examinations ........................................................................... 40
Mid-Term Examinations ............................................................. 40
Final Examinations/Assignments and Final Week of Classes ............ 40
Policy on Student Access to Final Examination Materials ............... 42
Exchange Programs ................................................................... 42
Failed Courses .......................................................................... 42
Multiple Failure Limitations ....................................................... 42
Grading System ......................................................................... 42
Alternate Grading System ........................................................... 43
Other Grade Notations ............................................................... 43
Grading Procedures ................................................................... 43
Submission of Final Grades ........................................................ 44
Release of Final Grades ............................................................. 44
Grad Re-Readings ....................................................................... 44
Calculation Errors or Omissions of Grades ..................................... 44
Methods or Criteria Used in Establishing Final Grades .................... 44
Misapplication of an Academic Regulation or Procedure .................. 45
Graduate Courses ....................................................................... 45
Graduation ................................................................................. 45
A. Baccalaureate Programs ........................................................ 45
B. Certificate and Diploma Programs .......................................... 45
C. Procedures ............................................................................ 45
D. Standing on Graduation ........................................................ 46
E. Notations on Transcript .......................................................... 46
Letters of Confirmation of Enrolment ............................................ 46
Letters of Confirmation of Graduation ......................................... 46
Letters of Permission .................................................................. 46
Priority Access Courses ................................................................ 46
Prior Learning Assessment .......................................................... 46
Registration ................................................................................. 47
In-Course Students ..................................................................... 47
Parking Payments ....................................................................... 47
Changes to Preprinted Calculations ............................................. 47
Cancellation/Withdrawal Procedure ............................................. 47
Hospitality Services, OSAP, Parking ........................................... 47
Return Mail Box Locations (Internal Mail) ..................................... 47
Late Registration .......................................................................... 48
Schedule of Studies ..................................................................... 48
Scheduling ................................................................................ 48
Undergraduate Course Timetable ................................................ 48
Changes to the Published Undergraduate Course Timetable ............ 48
Classroom Assignment ................................................................ 48
Staff Registration and Tuition Waivers ......................................... 49
Student Type .............................................................................. 49
Regular ................................................................................... 49
Special .................................................................................... 49
Supplemental Privilege ................................................................ 49
Procedures for Supplemental Privileges ....................................... 49
Transcripts ................................................................................ 50
Transfer of Program .................................................................... 50
Verification Notice ...................................................................... 50
Withdrawal ................................................................................ 50
IX. Scholarships and Other Awards ............................................ 52
General Statements on Awards .................................................. 52
Bachelor of Applied Science ....................................................... 53
Entrance Scholarships ............................................................... 53
Entrance Scholarships with Financial Need ................................... 57
Entrance Bursaries ..................................................................... 58
In-course Scholarships ............................................................... 59
In-course Scholarships with Financial Need ................................... 66
In-course Bursaries ..................................................................... 68
In-course Travel Grants .............................................................. 71
Bachelor of Arts ......................................................................... 73
Entrance Scholarships ............................................................... 73
Entrance Scholarships with Financial Need ................................... 77
Entrance Bursaries ..................................................................... 79
In-course Scholarships ............................................................... 80
In-course Scholarships with Financial Need ................................... 83
In-course Bursaries ..................................................................... 93
In-course Travel Grants .............................................................. 97
Bachelor of Arts and Science ...................................................... 104
Entrance Scholarships ............................................................... 104
Entrance Scholarships with Financial Need ................................... 108
Entrance Bursaries ..................................................................... 109
In-course Scholarships ............................................................... 109
In-course Scholarships with Financial Need ................................... 114
In-course Bursaries ..................................................................... 116
In-course Travel Grants .............................................................. 118
Bachelor of Bio-Resource Management Degree .......................... 120
Entrance Scholarships ............................................................... 120
Entrance Scholarships with Financial Need ................................... 124
Entrance Bursaries ..................................................................... 126
In-course Scholarships ............................................................... 126
In-course Scholarships with Financial Need ................................... 131
In-course Bursaries ..................................................................... 133
In-course Travel Grants .............................................................. 136
Bachelor of Commerce ............................................................. 139
Entrance Scholarships ............................................................... 139
Entrance Scholarships with Financial Need ................................... 143
Entrance Bursaries ..................................................................... 146
In-course Scholarships ............................................................... 145
In-course Scholarships with Financial Need ................................... 157
In-course Bursaries ..................................................................... 160
In-course Travel Grants .............................................................. 165
Bachelor of Computing ............................................................ 168
Entrance Scholarships ............................................................... 168
Entrance Scholarships with Financial Need ................................... 172
Entrance Bursaries ..................................................................... 173
In-course Scholarships ............................................................... 173
In-course Scholarships with Financial Need ................................... 175
In-course Bursaries ..................................................................... 180
In-course Travel Grants .............................................................. 183
Bachelor of Engineering ........................................................... 185
Entrance Scholarships ............................................................... 185
Entrance Scholarships with Financial Need ................................... 189
Entrance Bursaries ..................................................................... 190
In-course Scholarships ............................................................... 190
In-course Scholarships with Financial Need ................................... 196
In-course Bursaries ..................................................................... 198
In-course Travel Grants .............................................................. 201
Bachelor of Landscape Architecture .......................................... 202
Entrance Scholarships ............................................................... 202
Entrance Scholarships with Financial Need ................................... 206
Entrance Bursaries ..................................................................... 207
In-course Scholarships ............................................................... 208
In-course Scholarships with Financial Need ................................... 214
In-course Bursaries ..................................................................... 216
In-course Travel Grants .............................................................. 220
Bachelor of Science ................................................................. 223
Entrance Scholarships ............................................................... 223
Entrance Scholarships with Financial Need ................................... 228
Entrance Bursaries ..................................................................... 230
In-course Scholarships ............................................................... 230
In-course Scholarships with Financial Need ................................... 245
In-course Bursaries ..................................................................... 249
In-course Travel Grants .............................................................. 254
Bachelor of Science in Agriculture ............................................. 258
Entrance Scholarships ............................................................... 258
Entrance Scholarships with Financial Need ................................... 262
Entrance Bursaries ..................................................................... 264
In-course Scholarships ............................................................... 265
In-course Scholarships with Financial Need ................................... 274
In-course Bursaries ..................................................................... 276
In-course Travel Grants .............................................................. 280
Bachelor of Science in Environmental Sciences ......................... 284
Entrance Scholarships ............................................................... 284
Entrance Scholarships with Financial Need ................................... 288
Entrance Bursaries ..................................................................... 290
In-course Scholarships ............................................................... 291
In-course Scholarships with Financial Need ................................... 299
In-course Bursaries ..................................................................... 302
In-course Travel Grants .............................................................. 306
Bachelor of Science in Technology ............................................ 310
Entrance Scholarships ............................................................... 310
Entrance Scholarships with Financial Need ................................... 314
Entrance Bursaries ..................................................................... 315
In-course Scholarships ............................................................... 315

2011-2012 Undergraduate Calendar
Last Revision: March 15, 2014
### Bachelor of Computing (B.Comp.)

<table>
<thead>
<tr>
<th>Program Information</th>
<th>396</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science (CS)</td>
<td>396</td>
</tr>
<tr>
<td>Computer Science (Co-op) (CS:C)</td>
<td>396</td>
</tr>
<tr>
<td>Software Engineering (SENG)</td>
<td>397</td>
</tr>
<tr>
<td>Software Engineering (Co-op) (SENG:C)</td>
<td>397</td>
</tr>
</tbody>
</table>

### Bachelor of Engineering [B.Eng.]

<table>
<thead>
<tr>
<th>Program Information</th>
<th>399</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineering Program Regular and Co-op (MECH/MECH:C)</td>
<td>403</td>
</tr>
<tr>
<td>Water Resources Engineering Program Regular and Co-op (WRE/WRE:C)</td>
<td>403</td>
</tr>
</tbody>
</table>

### Bachelor of Landscape Architecture (B.L.A.)

<table>
<thead>
<tr>
<th>Program Information</th>
<th>405</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedule of Studies</td>
<td>405</td>
</tr>
</tbody>
</table>

### Bachelor of Science (B.S.C.)

<table>
<thead>
<tr>
<th>The Three Semester System</th>
<th>406</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfer from One B.Sc. Program to Another</td>
<td>406</td>
</tr>
<tr>
<td>Program Information</td>
<td>406</td>
</tr>
<tr>
<td>General Program (BSCG)</td>
<td>406</td>
</tr>
<tr>
<td>Honours Programs (BSCI)</td>
<td>407</td>
</tr>
<tr>
<td>Animal Biology (ABIO)</td>
<td>408</td>
</tr>
<tr>
<td>Applied Mathematics and Statistics (Co-op) (APMS:C)</td>
<td>408</td>
</tr>
<tr>
<td>Biochemistry (BIOC)</td>
<td>409</td>
</tr>
<tr>
<td>Biochemistry (Co-op) (BIOC:C)</td>
<td>409</td>
</tr>
<tr>
<td>Biological and Pharmaceutical Chemistry (BPCH)</td>
<td>411</td>
</tr>
<tr>
<td>Biological and Pharmaceutical Chemistry (Co-op) (BPCH:C)</td>
<td>411</td>
</tr>
<tr>
<td>Biological Science (BIOS)</td>
<td>412</td>
</tr>
<tr>
<td>Biology (BIOI)</td>
<td>413</td>
</tr>
<tr>
<td>Bio-Medical Science (BIMI)</td>
<td>413</td>
</tr>
<tr>
<td>Biophysics (BIOP)</td>
<td>413</td>
</tr>
<tr>
<td>Biophysics (Co-op) (BIOP:C)</td>
<td>414</td>
</tr>
<tr>
<td>Biotechnology (BIOT)</td>
<td>415</td>
</tr>
<tr>
<td>Business Administration (BADM)</td>
<td>415</td>
</tr>
<tr>
<td>Chemical Physics (CHPY)</td>
<td>415</td>
</tr>
<tr>
<td>Chemical Physics (Co-op) (CHPY:C)</td>
<td>416</td>
</tr>
<tr>
<td>Chemistry (CHEM)</td>
<td>416</td>
</tr>
<tr>
<td>Chemistry (Co-op) (CHEM:C)</td>
<td>417</td>
</tr>
<tr>
<td>Computing and Information Science (CIS)</td>
<td>418</td>
</tr>
<tr>
<td>Ecology (ECOL)</td>
<td>418</td>
</tr>
<tr>
<td>Environmental Biology (ENVB)</td>
<td>419</td>
</tr>
<tr>
<td>Environmental Geoscientific and Geomatics (EGG)</td>
<td>420</td>
</tr>
<tr>
<td>Food Science (FOOD)</td>
<td>421</td>
</tr>
<tr>
<td>Food Science (Co-op) (FOOD:C)</td>
<td>421</td>
</tr>
<tr>
<td>Forest Systems (FSYS)</td>
<td>422</td>
</tr>
<tr>
<td>Functional Foods and Nutraceuticals (FFAN)</td>
<td>422</td>
</tr>
<tr>
<td>Geographic Information Systems (GIS) and Environmental Analysis</td>
<td>422</td>
</tr>
<tr>
<td>Geology (GEOL)</td>
<td>422</td>
</tr>
<tr>
<td>Human Kinetics (HK)</td>
<td>422</td>
</tr>
<tr>
<td>Marine and Freshwater Biology (MBF)</td>
<td>423</td>
</tr>
<tr>
<td>Mathematical Science (MSCI)</td>
<td>423</td>
</tr>
<tr>
<td>Mathematics (MATH)</td>
<td>423</td>
</tr>
</tbody>
</table>
Microbiology (MICR) ........................................ 424
Microbiology (Co-op) (MICR.C) ....................... 425
Molecular Biology and Genetics (MBG) ........... 425
Nanoscience (NANO)..................................... 426
Nanoscience (NANO.C) ................................. 427
Neuroscience (NEUR) .................................... 427
Nutritional and Nutraceutical Sciences (NANS) .... 428
Physical Science (PSCI) .................................... 428
Physics (PHYS) ............................................. 429
Physics (Co-op) (PHYS.C) .............................. 430
Plant Science (PLANTC) .............................. 431
Psychology: Brain & Cognition (PBC) .............. 432
Statistics (STAT) .......................................... 433
Theoretical Physics (THPY) ............................ 434
Toxicology (TOX) .......................................... 434
Toxicology (Co-op) (TOX.C) ......................... 435
Wild Life Biology (WLB) .............................. 436
Zoology (ZOO) ............................................. 436
Bachelor of Science in Agriculture [B.Sc.(Agr.)] .... 438
Bachelor of Commerce .................................... 465
Bachelor of Science in Environmental Sciences ... 461
Bachelor of Science in Biological Science ........... 461
Bachelor of Science in Environmental Sciences .... 461
Open Learning .............................................. 461
The Office of Open Learning ......................... 461
The Open Learning program ......................... 461
Continuing Education Option ....................... 461
Guaranteed Admission to a B.A. Program .......... 461
Guaranteed Admission to the B.Comm. Program .... 461
Open Learning Program Certificates and Diplomas . 461
Open Learning program Courses* ................. 461
Open Learning Scholarships/Bursaries ............. 461
Distance Education ....................................... 462
Continuing Education ................................... 462
Summer Studies (Summer Semester) ............... 464
XII. Course Descriptions ................................. 465
General Information ...................................... 465
Course Labelling and Levels ......................... 465
Course Information ....................................... 465
Course Prerequisites ...................................... 465
Course Equates and Restrictions ..................... 465
Accounting ................................................ 466
Agriculture ................................................. 467
Anatomy .................................................. 469
Animal Science ........................................... 470
Anthropology .............................................. 472
Art History ................................................ 474
Arts and Sciences ........................................ 477
Biochemistry ............................................. 478
Biology ..................................................... 479
Biomedical Sciences ..................................... 482
Botany ...................................................... 484
Business ................................................... 485
Chemistry .................................................. 486
Chinese .................................................... 488
Classical Studies ......................................... 489
Computing and Information Science ................. 491
Co-operative Education ................................. 494
Crop Science ............................................. 495
Economics ................................................ 496
Environmental Design and Rural Development .... 499
Engineering ................................................ 500
English ..................................................... 506
Environmental Biology .................................. 511
Environmental Management .......................... 513
Environmental Sciences ............................... 515
Equine ..................................................... 517
European Studies ........................................ 518
External Courses ........................................ 519
Family Relations and Human Development ....... 521
Food Science .............................................. 524
Food, Agriculture and Resource Economics ....... 526
French Studies ............................................. 528
Geography ................................................ 530
Geology .................................................... 533
German Studies ......................................... 534
Greek ........................................................ 535
Hispanic Studies ......................................... 536
History ..................................................... 537
Human Kinetics .......................................... 542
Horticultural Science .................................... 544
Human Resources and Organizational Behaviour . 545
Hospitality and Tourism Management ............... 547
Humanities ................................................ 549
Interdisciplinary Physical Science .................... 550
Interdisciplinary Social Science ...................... 551
Interdisciplinary University ........................... 552
Integrative Biology ....................................... 553
International Development ............................ 554
Italian Studies ............................................ 555
Landscape Architecture ................................ 556
Latin ......................................................... 558
Linguistics ................................................ 559
Management ............................................. 560
Marketing and Consumer Studies .................... 561
Mathematics .............................................. 563
Molecular and Cellular Biology ....................... 566
Meteorology .............................................. 567
XIII. Diploma Programs .................................................. 623

XIV. General Information .................................................. 624

Centre's and Institutes ................................................. 624
Child Care ................................................................. 624
Copyright Policy ......................................................... 624
Cultural Affairs ........................................................... 624
Guelph Campus Cooperative .......................................... 624
Guelph Campus Co-op Housing ....................................... 624
Co-op Bookstore ....................................................... 624
Health and Performance Centre ....................................... 624
Human Rights and Equity Office ...................................... 625
Information on Teaching Certificates ................................ 625
Brock University ......................................................... 625
Lakehead University .................................................... 625
Laurentian University .................................................... 625
Nipissing University ..................................................... 625
Queen's University ....................................................... 625
The Ontario Institute for Studies In Education/University of Toronto ............................................ 625
Trent University .......................................................... 625
University of Ontario Institute of Technology .................... 625
University of Ottawa ..................................................... 625
University of Western Ontario ....................................... 625
University of Windsor ................................................... 625
Wilfred Laurier University ............................................. 625
York University ............................................................ 626
International Students .................................................. 626
Inventions Policy .......................................................... 626
Library and Learning Commons ....................................... 626
OPIRG-Guelph ............................................................. 626
Regular Officer Training Plan (ROTP) ............................... 626
Statistics Canada - Notification of Disclosure ...................... 626
Student Co-operating .................................................... 626
Student Services .......................................................... 626
Athletics ..................................................................... 626
Co-operative Education & Career Services ......................... 627
Counselling & Disability Services .................................... 627
Office of the Associate Vice-President, Student Affairs ......... 627
Student Government ...................................................... 627
Student Health Services ............................................... 628
Student Housing Services .............................................. 628
Student Life .................................................................. 628
Student Rights and Responsibilities ................................ 628
University Community Principles ................................... 629
Academic Responsibilities ............................................. 629
Offenses .................................................................... 629
Judicial Processes .......................................................... 629
Students With Disabilities (CSD) ..................................... 630
University Bookstore ..................................................... 630
University Centre .......................................................... 630
University ID Cards ....................................................... 631

XV. Summary of Attendance ............................................... 632

XVI. Administration and Faculty ......................................... 634

Administration and Faculty .............................................. 634
Chancellor Emeritus ....................................................... 634
The Board of Governors ................................................. 634
Honorary Fellows of the University ................................... 634
Medal of Merit ............................................................. 634
John Bell Award .......................................................... 634
The Lincoln Alexander Medal of Distinguished Service ....... 634
Advisory Senate ............................................................ 634

Administrative Departments ............................................. 635
Alumni Affairs and Development ...................................... 635
Arboretum .................................................................. 635
Athletics .................................................................... 635
Audit Services .............................................................. 635
Centre for Families, Work and Well-Being ......................... 635
Centre for International Programs .................................. 635
Centre for Leadership .................................................... 635
Communications and Public Affairs ................................ 635
Campus Community Police, Fire Prevention and Parking Services ............................................ 635
Computing and Communications Services ...................... 635
Co-operative Education and Career Services .................... 635
Environmental Health and Safety ................................... 636
Financial Services ......................................................... 636
Health and Performance Centre ....................................... 636
Hospitality Services ....................................................... 636
Human Resources .......................................................... 636
Human Rights and Equity Office ..................................... 636
Learning Commons ...................................................... 636
Library .................................................................... 636
Macdonald Stewart Art Centre ......................................... 636
Office of Open Learning ................................................ 636
Office of Registrarial Services ......................................... 637
Office of Research ........................................................ 637
Office of Student Affairs ................................................. 637
Physical Resources ......................................................... 637
Student Health Services ............................................... 637
Student Housing Services .............................................. 637
Student Life .................................................................. 637
Teaching Support Services .............................................. 637
Undergraduate Academic Information Centre .................. 637
University Centre .......................................................... 637

College of Arts ................................................................ 638
Department of History .................................................... 638
Department of Philosophy ............................................. 638
School of Fine Art and Music .......................................... 638
School of Languages and Literatures ............................... 639
School of English and Theatre Studies ............................. 639

College of Biological Science .......................................... 639
Department of Human Health and Nutritional Sciences .... 639
Department of Integrative Biology .................................. 640
Department of Molecular and Cellular Biology ................. 640

College of Management and Economics ......................... 641
Department of Business ................................................ 641
Department of Economics ............................................. 641
Department of Marketing and Consumer Studies ............. 641
School of Hospitality and Tourism Management .............. 641

College of Physical and Engineering Science .................... 642
Department of Chemistry .............................................. 642
Department of Computing and Information Science ......... 642
Department of Mathematics and Statistics ....................... 642
Department of Physics ................................................... 643
School of Engineering ................................................... 643

College of Social and Applied Human Sciences ................ 644
Department of Family Relations and Applied Nutrition .... 644
Department of Geography ............................................. 644
Department of Political Science ...................................... 644
Department of Psychology ............................................. 644
Department of Sociology and Anthropology ..................... 645

Ontario Agricultural College ......................................... 645
Department of Animal and Poultry Science ....................... 645
Department of Food, Agricultural and Resource Economics 646
Department of Food Science .......................................... 646
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 Fellow 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 19 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 exercises; 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.

As outcomes of this objective, students will understand the strengths and limitations of the various forms of inquiry, and the cultural, intellectual and historic impact of these forms. The student will be able to describe similarities and differences between the inquiry methods of the physical scientist, the biological scientist, the social scientist and the scholar of the humanities.

8. Depth and Breadth of Understanding

Breadth of understanding is an expression of the ability to operate across disciplinary boundaries in a coherent and productive way, with principles drawn from different disciplines. Depth of understanding depends upon mastery of a body of knowledge, but it is not to be confused with knowledge, and is not necessarily commensurate with the number of courses taken in a subject.

Depth and breadth of understanding depend upon, and themselves contribute to, independence of thought; they contribute also to a love of learning. Possession of a historical perspective may be essential to a broad and deep understanding of a subject.

At the lowest level of experience, in courses introductory to a subject, students might be shown how sets of facts may be related to others both laterally and vertically (or hierarchically). The outcome of this might be simply consciousness, on the part of the student, of the possibilities of understanding, as distinct from simply knowing.

The next higher level moves from demonstration to the student of interrelationships to the development of the student's own ability to create interrelations. The experience provided will develop a creative imaginativeness skillfully exercised on a body of material mastered in some detail. But the experience, like that provided for independence of thought, goes beyond display of erudition, and requires alert curiosity and a refusal to be content with mere assemblage of data. At this level, the student should be expected to integrate knowledge and modes of interpretation and comprehension from different disciplines so as to generate a new understanding. The highest level takes the student to the ability to deal in abstractions, to generate abstractions.

In general, depth and breadth of understanding are characterized by the ability to recognize the implications of the information at hand and to put it into a broader context; and by the ability to draw upon different disciplines to provide a clearer and deeper understanding of the discipline with which the student is immediately concerned.

These outcomes might be assessed in a piece of written work such as an independent research paper, in the design of an experiment, in the identification and solution of a problem, or in a work of aesthetic creation.

9. Independence of Thought

At the lowest level, students are shown the possibilities of independent thinking, by an instructor who, in the classroom and elsewhere, challenges orthodoxies and criticizes received opinions. The experience provided is that of imitation or emulation of a role model. At this level, the outcome might be no more than a receptivity, on the part of the student, to critical thinking and an openness to reasoned skepticism about the authority of the expert.

At a higher level, students become actively engaged in learning and thinking. At this level, they should be given the opportunity, in seminars, tutorials, or structured small group discussions, to offer their own challenges. The bases for such challenges may be formed, and so the challenges themselves will be open to challenge. As students become more independent in thought, they are better able to combine ideas and to generate new ideas.

At the highest level, independence of thought is a manifestation of love of learning, and it may contribute to a sense of self worth and of well-being. At this level, opportunities are provided for self-directed learning. One accomplishment may be the ability to ask the right kinds of questions, rather than the ability always to have answers.

10. Love of Learning

Love of learning is perhaps the quality that activates all other qualities that are the focus of learning objectives. Its expression is not easily separable from demonstration of other virtues. Thus, the true lover of learning will demonstrate both independence of thought and depth of understanding. As a consequence, setting an objective for love of learning comports also setting an objective for other qualities as well. But love of learning is not exhausted by, for example, independence of thought.

Love of learning may be reflected in, or expressed in terms of, intellectual curiosity; the ability (as in independence of thought) to ask useful kinds of questions (rather than the ability always to have answers); the ability to see far reaching implications; the ability to make connections between disparate topics; energy and passion in the pursuit of knowledge and understanding; dissatisfaction with simply accumulating facts or data; and critical ability.

Testing and instruction must minimize rote learning, and, so far as possible, give scope for the exercise of individual patterns of learning and individual interests.

Love of learning may be impeded by the demands of frequent evaluation of students' performance. The time frames imposed at an institutional level, to provide an organizational framework for the university experience, may also impair love of learning.

Love of learning may best be enhanced by the provision of opportunities for the student's personal involvement in learning. Such opportunities are perhaps best furnished in independent research projects initiated by the student. In such autonomous, but supervised, study the student can not only engage with the conflicting views of published authorities but also see in action, close at hand, the supervisor's own love of learning.
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](http://www.uoguelph.ca/secretariat/).
### III. Schedule of Dates

The dates for the 2011-2012 academic year are listed by semester below as follows:

- **Fall Semester 2011**
- **Winter Semester 2012**

#### Summer Semester 2011 (12 Week Format)

- **Tuesday, April 26**
  - Last day to submit Requests for Academic Consideration - 3rd meeting
- **Sunday, May 1**
  - Last day for applications for internal program transfer to Fall Semester 2011 for all programs except B.L.A. and D.V.M.
- **Wednesday, May 11**
  - Add period begins
- **Thursday, May 12**
  - Class schedule commences
- **Friday, May 13**
  - Last day to submit Requests for Academic Consideration--1st meeting
  - Last day to submit co-op work performance evaluations for Winter Semester 2011
- **Wednesday, May 18**
  - Last day to submit co-op work semester reports for Winter Semester 2011
- **Friday, May 20**
  - Add period ends
  - Last day to drop two-semester courses (W/S)
  - Last day for clearance to graduate for Summer Convocation
- **Monday, May 23**
  - Holiday--NO FULL-SEMESTER COURSES SCHEDULED--classes rescheduled to Thursday, August 4
- **Friday, May 27**
  - Kemptville Campus Convocation
- **Saturday, May 28**
  - Alfred Campus Convocation
- **Friday, June 3**
  - Ridgetown Campus Convocation
- **Monday, June 6**
  - Course selection period for Fall Semester 2011 begins--In-course students
- **Thursday, June 9**
  - Last day to submit Requests for Academic Consideration--2nd meeting
- **Friday, June 10**
  - Course selection period for Fall Semester 2011 ends--In-course students
- **Monday, June 13**
  - Summer Convocation
- **Tuesday, June 14**
  - Summer Convocation
- **Wednesday, June 15**
  - Summer Convocation
- **Thursday, June 16**
  - Summer Convocation
  - Deferred examinations commence
- **Friday, June 17**
  - Summer Convocation
  - Last day for applications to graduate for Fall Convocation
- **Saturday, June 18**
  - Deferred examinations scheduled
- **Tuesday, June 21**
  - Deferred examinations conclude
- **Friday, July 1**
  - Holiday--NO COURSES SCHEDULED--classes rescheduled to Friday, August 5
- **Friday, July 8**
  - Fortieth class day--Last day to drop one semester courses
- **Monday, August 1**
  - Holiday --NO COURSES SCHEDULED--classes rescheduled to Monday, August 8
- **Thursday, August 4**
  - Classes rescheduled from Monday, May 23, Monday schedule in effect
  - Classes conclude
  - Examinations commence
  - Summer Convocation

#### Summer Session 2011 (6 Week Format)

- **Thursday, May 12**
  - Class schedule commences
- **Monday, May 16**
  - Last day to add Summer Session courses
- **Monday, May 23**
  - Holiday--NO COURSES SCHEDULED--classes rescheduled to Thursday, June 23
- **Thursday, June 9**
  - Last day for dropping courses in Summer Session
- **Monday, June 27**
  - Examinations Commence
- **Friday, July 1**
  - Holiday -- NO EXAMS SCHEDULED
- **Saturday, July 2**
  - Examinations conclude

#### Fall Semester 2011

- **Monday, August 22**
  - Add period for Fall Semester 2011 begins
  - Last day to submit Request for Academic Consideration -- 3rd meeting
- **Monday, September 5**
  - Holiday
- **Thursday, September 8**
  - Class schedule commences
- **Friday, September 9**
  - Last day to submit Requests for Academic Consideration--1st meeting
  - Last day to submit co-op work performance evaluations for Summer 2011
- **Wednesday, September 14**
  - Last day to submit co-op work semester reports for Summer Semester 2011
- **Friday, September 16**
  - Add period ends
  - Last day to drop two-semester courses (S/F)
  - Last day for clearance to graduate for Fall Convocation
- **Wednesday, October 5**
  - Last day to submit Requests for Academic Consideration--2nd meeting
- **Monday, October 10**
  - Holiday--NO CLASSES SCHEDULED --classes rescheduled to Thursday, December 1
- **Tuesday, October 11**
  - Course selection period for Winter Semester 2012 begins--In-course students
- **Friday, October 14**
  - Last day for applications to graduate for Winter Convocation
- **Saturday, October 15**
  - Fall Convocation
- **Tuesday, October 18**
  - Deferred examinations commence
Deferred examinations conclude

Wednesday, November 2
• Course selection period ends--In-course students

Thursday, November 3
• Fortieth class day--Last day to drop one semester courses

Tuesday, November 15
• Last day for external and internal applications for admission to Winter Semester 2012 for all programs with Winter entry

Thursday, December 1
• Classes rescheduled from Monday, October 10, Monday schedule in effect
• Last day for internal applications into the Co-op option of B.A. (Psychology & Applied Math & Stats), B.Sc., B.Sc.(Env.) for Winter Semester 2012
• Last day for applications from in-course students for transfer (Winter Semester 2012) into the Co-op option of B.A. (Psychology & Applied Math & Stats), B.Sc., B.Sc.(Env.)
• Classes conclude

Monday, December 5
• Examinations commence

Monday, December 12
• Add period for Winter Semester 2012 begins

Friday, December 16
• Examinations conclude

Monday, December 19
• Last day to submit Requests for Academic Consideration--3rd meeting

D.V.M. Fall Semester 2011

Monday, September 5
• Holiday--NO CLASSES SCHEDULED (Phases 1, 2, 3)
• Summer rotations with case-care responsibilities continue (Phase 4)

Tuesday, September 6
• Classes commence (Phases 1, 2, 3)
• Rotations commence (Phase 4)

Monday, October 10
• Holiday--NO CLASSES SCHEDULED (Phases 1, 2, 3)
• Rotations with case-care responsibilities continue (Phase 4)

Friday, December 16
• Classes conclude (Phases 1, 2, 3)
• Rotations conclude (Phase 4)

Winter Semester 2012

Monday, December 12
• Add period for Winter Semester 2012 begins

Friday, January 6
• Last day to submit Requests for Academic Consideration--1st meeting

Monday, January 9
• Class schedule commences

Tuesday, January 10
• Last day to submit co-op work performance evaluations for Fall 2011

Friday, January 13
• Add period ends
• Last day to drop two-semester courses (F/W)
• Last day to submit co-op work semester reports for Fall Semester 2011

Friday, January 20
• Last day for clearance to graduate for Winter Convocation

Friday, January 27
• Last day to apply for international exchange programs departing in Summer 2012, Fall 2012 or Winter 2013 without late application fee

Friday, February 3
• Last day to submit Request for Academic Consideration--2nd meeting

Monday, February 6
• Deferred examinations commence

Friday, February 10
• Last day for applications to graduate for Summer Convocation
• Deferred examinations conclude

Monday, February 20
• Winter Break begins--NO CLASSES SCHEDULED THIS WEEK
• Holiday

Tuesday, February 21
• Winter Convocation

Wednesday, February 22
• Winter Convocation

Thursday, February 23
• Winter Convocation

Friday, February 24
• Winter Break ends
• Winter Convocation

Monday, February 27
• Classes resume

Thursday, March 1
• Last day for external and internal applications for admission to Fall Semester 2012 for B.L.A.

Monday, March 5
• Course selection period for Summer Semester 2012 and Fall Semester 2012 begins--In-course students

Friday, March 9
• Fortieth class day--Last day to drop one semester courses

Thursday, March 15
• Last day for external and internal applications for admission to Summer Semester 2012 for all programs with summer entry

Monday, March 26
• Course selection period ends-In-course students

Thursday, April 5
• Classes conclude
• Last day for internal applications into the Co-op option of B.A. (Economics & Mathematical Economics), B.A.Sc., B.Comm., B. Comp., B.Eng., B.Sc. (Food Science) for Fall Semester 2012
• Last day for applications from in-course students for transfer (Fall Semester 2012) into the Co-op option of B.A. (Economics & Mathematical Economics), B.A.Sc., B.Comm., B. Comp., B.Eng., B.Sc. (Food Science)

Friday, April 6
• Holiday

Monday, April 9
• Examinations begin

Friday, April 20
• Examinations conclude

Monday, April 23
• Last day to submit Requests for Academic Consideration--3rd meeting

D.V.M. Winter Semester 2012

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

Monday, February 20
• 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 24
• Winter Break ends (Phases 1, 2, 3)

Monday, February 27
• Classes resume (Phases 1, 2, 3)

Friday, March 30
• Classes conclude (Phases 1, 2, 3)

Friday, April 6
• Holiday--NO EVALUATIONS SCHEDULED (Phases 1, 2, 3)
• Rotations with case-care responsibilities continue (Phase 4)

Monday, April 9
• Final examinations commence (Phases 1, 2, 3)

Friday, April 13
• Rotation conclude (Phase 4)

Monday, April 16
• Summative examinations commence (Phase 4)

Friday, April 20
• Final examinations conclude (Phases 1, 2, 3)
• Summative examinations conclude (Phase 4)

Monday, May 7
• Externship begins (Phase 4)
IV. Admission Information

Admission Requirements to University Programs in 2010

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 6 Grade 12 U/M courses including ENG4U. All specific subject requirements must be Grade 12U. 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 6 Grade 12 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 http://admission.uoguelph.ca/spf which 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-limited enrolment programs by submitting their final grades. Admission consideration will be given on the basis of final grades only. Admission consideration will be given on the basis of final grades only.

Applications for admission to the University have 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.

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.
Admission Information, Advanced Standing Admission

B.A. Program

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

ENG4U and 2 additional 4U or 4M credits, one of which must contain a writing component.


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 credit.

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, MHI4U, and one additional 4U/4M credit.

(ACCT, FAB, HRM, MEF, MKMN, REH): ENG4U, MHI4U and one additional 4U Mathematics credit.

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. have not 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 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

I. 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.

Applicants must have completed the Ontario Secondary School Diploma including 6 Grade 12 U/M credits, or equivalent, for admission to the University of Guelph prior to the commencement of the academic session for which application is made.

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.

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 credits 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.

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.

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.

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.

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).

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 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 Office of Open Learning 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.

Applicants from Ontario Currently Enrolled in Secondary School

See information on "Admission Requirements" for specific course requirements for the various programs. The OUAC 105 application should be used by all applicants who are currently enrolled in an Ontario Secondary School as a day school student. Normally applicants will receive an offer of admission to only one program or specialization at the University of Guelph. Applicants who apply to more than one program at the University of Guelph will have their highest choice program considered first. Only in the event that a student is ineligible for admission to the highest choice program will consideration be given to the lower choices. Students who apply directly to a Co-op program and who are not admitted will be considered for the regular degree program. Applicants to the University are requested, where possible, to indicate on the application form their subject of primary interest. In many cases, the program code to be inserted on the 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 from Ontario Not Currently Enrolled in Secondary School

Applicants who are not currently enrolled in an Ontario secondary school as a day school student should use the OUAC 105 application form. This includes the following types of applicants: adult, night school, correspondence, those who previously obtained the Ontario Secondary School Diploma. Applicants who apply to more than one program at the University of Guelph will have their highest choice program considered first. In the event that a student is ineligible for admission to the highest choice program, consideration be given to the lower choices during the final round of admission offers. Students who apply directly to a Co-op program and who are not admitted will be considered for the regular degree program.

Applicants also have the opportunity to complete and submit the Student Profile Form as indicated in the previous section.

All Other External Students

All other students should complete an OUAC 105 application form. These applicants would include those applying from:

a. secondary school outside Ontario
b. CEGEP
c. recognized college or university
d. College of Applied Arts and Technology, and Institutes of Technology and Advanced Learning

In addition, students applying under the Mature Student Regulation, to General Studies, or to Non Degree should complete the 105 form. The 105 form is available on-line at http://www.ouac.on.ca/105/.

Applying From Outside Canada

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 www.uoguelph.ca/admissions.

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 Algonquin College 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 Algonquin College 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 Canadore College 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 # 1861)

The articulation agreement between the University of Guelph and Canadore College provides an opportunity for graduates from the three-year Hospitality & Tourism 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 11.00 advanced standing credits. Applicants will be required to have completed Canadore College 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 # 1862)

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 11.00 advanced standing credits. Applicants will be required to have completed Canadore College 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 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 Centennial College 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 # 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 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.

The number of advanced standing transfer credits will range from 5.00 to 10.00 credits and vary depending upon the program completed at Conestoga. Prospective applicants should contact Admission Services for details.

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

Should there be more than ten such qualified students applying from articulated programs, the ten "reserved" places will be assigned to the highest performing applicants. Those not so selected will compete for admission along with all other transfer applicants and, for those admitted to the major, will be granted advanced standing credits as defined in this agreement. Conestoga graduates will receive 5.00 advanced standing credits. Prospective applicants should contact Admission Services for details.

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 Landscape Architecture
An articulation agreement between Fanshawe College and the University of Guelph provides up to five places per year for graduates of the Landscape Design program (Landscape Design Diploma) who have a minimum cumulative grade point average of B (70.00%). Actual number accepted will be based on qualifications of applicants and existing class size. All applicants are required to submit a portfolio and a Background Information Form. Upon admission, Fanshawe College students will receive 10.00 transfer credits. A minimum of 10.00 credits must be completed at the University of Guelph. Prospective applicants should contact the Bachelor of Landscape Architecture program counsellor for further information.

Georgian College Institute of University Partnerships and Advanced Studies
Bachelor of Commerce, Major Hotel & Food Administration (OCUTG # 1864)
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 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 Management--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 Business Administration--Professional Golf 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 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 Tourism Management (OCUTG # 1867)
The articulation agreement between the University of Guelph and Conestoga 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) 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 # 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 6.50 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 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 9.00 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12U (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 12U (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 12U (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 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 12U (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 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 12U (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 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 12U (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 12U (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 # 1878)
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 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 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 8.50 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12U (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 both 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 12U (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 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 6.50 advanced standing credits. Applicants will be required to have completed Ontario credits in Grade 12U (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 articulation agreement between the University of Guelph and Seneca College provides an opportunity for students graduating 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 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.

Bachelor of Science

An articulation agreement with Seneca College enables graduates with a minimum B+ (75%) average, from the following three-year diploma programs, to transfer to the Bachelor of Science program at the University of Guelph with 7.50 transfer credits: Biotechnology Technologist (Research), Chemical Laboratory Technology-Pharmaceutical Chemical Engineering Technology. For further information, students should contact the program counsellor for the College of Physical and Engineering Science or the program counsellor for the College of Biological Science, depending on their intended major.

--Six Nations Polytechnic

The University of Guelph, along with five other universities, has entered into a partnership with Six Nations Polytechnic in the community of Six Nations to offer first-year transfer credits at any of the universities within the consortium if the student is admitted. Applicants should contact Admission Services about admission requirements and specific transfer credits.

Associate Diploma Programs

For information on programs offered, the requirements for admission, the procedures to be followed, course descriptions, etc., please view the current Diploma Program Calendar on-line at http://www.uoguelph.ca/diploma_calendar/.

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>
</tr>
</thead>
<tbody>
<tr>
<td>B.L.A.</td>
<td>March 1</td>
<td>May 1 - B.I.F.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>June 1 - Transcripts</td>
</tr>
<tr>
<td>D.V.M. - 2012</td>
<td>January 1</td>
<td>January 1 - MCAT Scores</td>
</tr>
<tr>
<td></td>
<td></td>
<td>March 1 - B.I.F.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>March 1 - References</td>
</tr>
<tr>
<td></td>
<td></td>
<td>March 1 - Transcripts</td>
</tr>
<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, 2012)</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

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 an adequate 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 if:

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.esl.uoguelph.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, 2, 3 or 4. 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).

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/.

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/elit/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/.

5. 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, contact the University of Guelph Language Program http://www.esl.uoguelph.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 Office of Open Learning 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.

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 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 their category of study, must apply for admission to the program for that degree category. Students who 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:

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 predetermined 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 preparing for the academic requirements of 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 (e.g. OAC English and 4U English). 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; 1 credit in a 4U Mathematics; SBI4U or SCH4U; 3 additional 4U or 4M credits.

Applied Human Nutrition
ENG4U; 1 credit in a 4U Mathematics; SBI4U; SCH4U; 2 additional 4U or 4M credits.

Recommendations and Notes:
- Biology (SBI4U) is the recommended science course for students pursuing a major in Child, Youth & Family or Adult Development

Bachelor of Arts--B.A.
ENG4U; 5 additional 4U or 4M credits.
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 credits.
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; 2 4U credits from SBI4U, SCH4U or SPH4U; 1 4U or 4M Arts or Social Science; 1 additional 4U or 4M credit.

Bachelor of Bio-Resource Management--B.B.R.M.
ENG4U; SBI4U; 4 additional 4U or 4M credits.

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; 1 additional 4U Mathematics credit, 3 additional 4U or 4M credits
Hotel and Food Administration, Public Management, Tourism Management
ENG4U; MHF 4U; 4 additional 4U or 4M credits.

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 credits.

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

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; 5 additional 4U or 4M credits.

Recommendations and Notes:

1. Applicants are required to submit a Background Information Form. A breath 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); 2 4U credits from SBI4U, SCH4U or SPH4U; 2 additional 4U or 4M credits.

Recommendations and Notes:

It is highly recommended that students select one of the two additional credits 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 credits: Biology, Physics and Chemistry.
4. Students are advised to include Biology, Chemistry and Physics among their 4U credits.
5. Students to the following B.Sc. majors must include MCV4U: Biochemistry, Biological and Pharmaceutical Chemistry, Chemistry, Biophysics, Chemical Physics, Physics, Theoretical Physics, Nanoscience, Mathematics, Statistics, Applied Mathematics and Statistics, Physical Science, Environmental Geoscience and Geomatics.

Bachelor of Science in Agriculture--B.Sc. (Agr.)
ENG4U; MHF4U; 2 4U credits from SBI4U, SCH4U or SPH4U, 2 additional 4U or 4M credits.

Recommendations and Notes:

1. Students contemplating admission to the D.V.M. Program should present 4U Physics, Biology and Chemistry, and/or 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 credits from SBI4U, SCH4U or SPH 4U; 1 additional 4U or 4M credit.

Recommendations and Notes:

1. All applicants are encouraged to include both 4U Physics and Chemistry in their course credits.
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 any 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 1 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; 2 4U credits from SBI4U, SCH4U or SPH4U, 2 additional 4U or 4M credits.

Recommendations and Notes:

1. To be best prepared for semester 1 of the program, all applicants are advised to include 4U Biology, Chemistry, and Physics.
2. Students interested in Environmental Geography or Natural Resources Management should consider 4U Geography in their program of study.
3. 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 2012 Entry.
To be eligible to apply for September 2012 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, 2011.
The earliest time at which applicants may apply for 2010 admission to the D.V.M. Program is during third year of their first undergraduate degree program. Please refer to 2010 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.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, 2012 for September 2012 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/vmcas/vmcas.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.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 dimensions 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 experience 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 requested from individuals who can provide unbiased, informed, critical assessments of the applicant. A minimum of two of the three references that applicants select must be veterinarians with whom he or she has obtained animal and veterinary experience in the fulfilment of the selection criteria outlined in Section 2.

4. Interviews

Applicants may be invited to an interview. Interviews give candidates an opportunity to display their ability to communicate effectively and give the interviewers an opportunity to assess candidates' attributes and attributes applicable to veterinary medicine. Applicants should be prepared to elaborate on statements made in the Background Information Form, to discuss their reasons for choosing veterinary medicine as a career, and to describe what they have done to affirm their career choice and to prepare themselves for admission. They should be prepared to discuss issues pertaining to husbandry, care and welfare of a variety of animal species. Applicants may be asked to describe the duties and responsibilities of veterinarians and the scope of veterinary medicine. All interviews are held at the University of Guelph (no exceptions can be made).

Additional Attributes Required for Entry into the D.V.M. Program

Applicants should be aware that a number of attributes are required for admission to the Program. In addition to those already identified above under Selection Criteria (e.g. academic achievement, academic aptitude, integrity) a number of others, some of which relate to certain University of Guelph Learning Objectives, have been identified. These are presented here to assist prospective candidates in preparing themselves for admission.

1. Literacy and Numeracy

Literacy and numeracy are the bases on which all knowledge is founded. The ability to read, write, and calculate are fundamental intellectual tools. Students entering the D.V.M. Program will be able to demonstrate literacy skills at least to the basic level as described under Literacy in the University of Guelph Learning Objectives. 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 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 describing situations in numeric terms. They will be able to assimilate and comprehend mathematical concepts and procedures to manage such information. They 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 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 comprehend 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. All other domestic applicants must apply using the Ontario Universities Application Centre by accessing the computerized application service http://www.ouac.on.ca/.

International applicants should apply through the Veterinary Medical College Application Service (VMCAS). For further details see http://aaavm.org/vmcas/vmcas.htm. Alternatively, international applicants can apply using the University of Guelph International Application found at 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, 2012. 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.

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

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 of Ontario, 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.
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.

Participating 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 http://www.uoguelph.ca/cip/ or visit the Information Centre, University Centre, Level 3.

A variety of exchange programs exist for undergraduate students and graduate students who wish to study at an overseas institution for a period of time. Regulations about exchange programs are shown in Exchange Programs of Section VIII--Undergraduate Degree Regulations and Procedures. For further information on any study abroad program, visit the InfoCentre, 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**
- Universitat 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**
- Ecole 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

**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 Tecnologico 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 all 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 will 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 (not to be confused with the Université Canadienne en France 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, in which case they are eligible for the monitor program (financial support in exchange for teaching conversational English) as well as several bursaries.

Students with native or near native ability in French at Guelph are also eligible for the monitor program, teaching conversational French locally. French Studies graduates may apply to the Canada France Exchange program which allows them to spend one full year in France, teaching conversational English in French high schools, as well as pursuing their studies at a French university if they so wish. For further details, contact the departmental advisor, School of Languages and Literatures, College of Arts.

**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.
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 Undergraduate Program 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 synopsized 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 synopsized 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.

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.

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

Fees for 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>
</tbody>
</table>

Last Revision: March 15, 2014
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. 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
Students must see the Policy Agreement for Student Involvement in Co-operative Education for withdrawal policies. If a student withdraws from co-op within the first 15 days of an Academic Semester, the student will receive a full refund of the co-op fee. Withdrawals after the 15th class day will not be eligible for a fee refund. Students who withdraw or are required to withdraw from a co-op education program after accepting their second work term will be required to pay all remaining fees.

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 Fund Fee 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.

Equipment Fund for Engineering Students
The Equipment Fund Fee 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 School of Engineering.

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 its activities. Refer to General Information Section of this Calendar. 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 activities. 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](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](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
The following Special University Fees are charged on a user-fee basis as outlined below: 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>Name of Fee and Description</td>
<td>Fee</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Cheque Refusal Fee</strong></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>For each cheque upon which payment is refused by the bank on which it is drawn.</td>
<td></td>
</tr>
<tr>
<td><strong>Cheque Processing Fee</strong></td>
<td>$20.00 per occurrence</td>
</tr>
<tr>
<td>Applied to students receiving short term loans or OSAP advances.</td>
<td></td>
</tr>
<tr>
<td><strong>Distance Education Resource Fee</strong></td>
<td>$75.00 per D.E. course</td>
</tr>
<tr>
<td>Non-refundable after the six-day add period.</td>
<td></td>
</tr>
<tr>
<td><strong>Equipment Fund for D.V.M.</strong></td>
<td>$50.00</td>
</tr>
<tr>
<td>Charged to semester 1,3,5,7 students</td>
<td></td>
</tr>
<tr>
<td><strong>Equipment Fund for B.ENG.</strong></td>
<td>$40.00</td>
</tr>
<tr>
<td>Charged per full-time semester</td>
<td></td>
</tr>
<tr>
<td><strong>Graduation Late Graduation Fee</strong></td>
<td>$60.00</td>
</tr>
<tr>
<td>Payable at time of submission of a late application for graduation.</td>
<td></td>
</tr>
<tr>
<td><strong>Late Registration Fee</strong></td>
<td>$60.00 per occurrence</td>
</tr>
<tr>
<td>Payable at the time of late registration (fee payment). Appeals against the late fee must be made in writing to the Secretary of the Late Appeals Committee within 10 class days from the commencement of classes. Appeal forms are available from WebAdvisor.</td>
<td></td>
</tr>
<tr>
<td><strong>Letter of Permission</strong></td>
<td>$50.00</td>
</tr>
<tr>
<td>Payable at time of submission of application.</td>
<td></td>
</tr>
<tr>
<td><strong>Official Transcript</strong></td>
<td>$12.00 each copy</td>
</tr>
<tr>
<td><strong>OAC Lab Fee</strong></td>
<td>$25.00 per semester</td>
</tr>
<tr>
<td><strong>Program Transfer Fee</strong></td>
<td>$40.00 per occurrence</td>
</tr>
<tr>
<td>For each applicant requesting a transfer from one degree program to another, or readmission.</td>
<td></td>
</tr>
<tr>
<td><strong>Registration Reinstatement Fee</strong></td>
<td>$200.00 per occurrence for full-time students $100.00 per occurrence for part-time students</td>
</tr>
<tr>
<td>Registration will be cancelled for students who have not paid or made satisfactory arrangement for payment by the date announced by Student Financial Services each semester. There is a reinstatement fee levied for students wishing to register after the deadline announced by SFS each semester. 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.</td>
<td></td>
</tr>
<tr>
<td><strong>Supplemental Privilege</strong></td>
<td>$50.00 per occurrence</td>
</tr>
<tr>
<td>Notification of non-payment will result in the withholding of grades.</td>
<td></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 faculty advisor has particular expertise in the program specialization (major, minor, area of concentration, area of emphasis) and the fit of that specialization within the degree program. 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 to other campus services, as necessary
- communicate information about the specialization to the department and the curriculum committee, program committee, and program counsellor, and to bring forward any concerns or issues as students progress through the Schedule of Studies for the specialization
- liaise with the program counsellor for the degree program, in order to provide information about the specialization as it fits 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
- assist with graduation checks, as requested
- approve substitutions or exemptions for the specialization
- be aware of career and graduate study opportunities related to the field of study, or refer appropriately
- provide information and advice to the department and college, as requested, around enrolment management issues

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 as 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
- meet with students as requested, or required
- refer to the faculty advisor, as appropriate
- uphold the academic policies of the university
- help interpret the academic policies and procedures to students, staff, and faculty
- act as a source of referral to other campus services
- be generally aware of career and graduate study opportunities related to the field of study, or refer appropriately
- work closely with the faculty advisor on any changes to the Schedule of Studies
- 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) (U.C. Level 3, extension 56613, uaic@uoguelph.ca) 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, Office of Open Learning/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 faculty advisor for that specialization prior to obtaining the signature of the program counsellor for the degree program and submit the completed form to Student Client Services (Level 3, University Centre).
Academic Consideration, Appeals and Petitions
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</td>
<td>Medical Psychological Compassionate</td>
<td>Instructor</td>
<td>Same semester</td>
<td>Academic Review Sub-Committee</td>
</tr>
<tr>
<td>(see below for deferred privilege requests)</td>
<td></td>
<td></td>
<td></td>
<td>Submitted as soon as possible, not later than the end of the following semester</td>
</tr>
<tr>
<td>Request for deferred</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>Privilege (Examination or Condition)</td>
<td></td>
<td></td>
<td></td>
<td></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 Committee10 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
to provide documentation for the period affected. The necessity for documentation will
depend in part upon the length of the period 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 or 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
situation 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
situation 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:

a. the student feels that appropriate consideration has not been granted by the instructor,

b. if the medical, psychological or compassionate circumstance is such that it could
affect overall semester performance or the ability to meet the course grade submission
deadline.

Student's Responsibilities
If due to medical, psychological or compassionate circumstances a student is unable to
complete any portion of the course's work the student should:

1. Inform the instructor-in-charge of the course in writing.
2. If the instructor requests it, supply documentation. If documentation is unavailable,
consult your program counsellor.
3. Complete and submit missed work by the new deadline established by the instructor.
4. Consult with the program counsellor if circumstances warrant (see a) and b) above).
If the medical, psychological or compassionate circumstance is such that it could affect
overall semester performance or the ability to meet the course grade submission deadline,
the program counsellor should be consulted regarding an appropriate course of action.

Instructor's Responsibilities
Faculty members should exercise discretion when requiring documentation, particularly
when the assessment in question constitutes a small proportion of the course grade, or
when alternative means for carrying out the assessment are available.
The Board of Undergraduate Studies recommends that faculty make every effort to
accommodate students representing the University in extracurricular activities when there
is a conflict between those activities and the requirements of the course.
If the student does not submit all of the required work by the course grade submission
deadline, the instructor shall refer the situation to the Academic Review Sub-Committee.
The instructor cannot grant extensions beyond the final date for submission of grades
for the course.

Program Counsellor's Responsibilities
If the student and the instructor cannot arrive at mutually acceptable accommodation to
complete course requirements prior to the course grade submission deadline, the program
counsellor may act as a mediator. The program counsellor may discuss the issue with the
department chair if appropriate.
In the event that medical, psychological or compassionate circumstances are affecting the
student's overall performance, the program counsellor will ensure that the student's
instructors are advised that academic consideration based on medical or compassionate
grounds is warranted. In such cases the program counsellor may be of assistance in
co-ordinating instructors' responses to the request for consideration.

Academic Review
If final examinations, term assignments, projects, work term reports or other course
requirements are not completed by the course grade submission deadline, academic
consideration is not the responsibility of the faculty member but rather, the responsibility
of the Academic Review Sub-Committee of the program in which the student is registered.
A request for academic consideration should be made to the Academic Review Sub-Committee during, or immediately after, the semester to which it refers.

A request to change an earlier decision of the Academic Review Sub-Committee may be
made only on the basis of relevant information not previously submitted. Students wishing
to resubmit a "Request for Academic Consideration" form with additional supporting
documentation should consult their program counsellor. Students who believe that the
decision of the Academic Review Sub-Committee is inappropriate may appeal the decision
to the Senate Committee on Student Petitions within 90 days of the academic review
decision (see Petitions). The Senate Committee will not normally consider any appeals
submitted past this deadline.

Student's Responsibilities
If due to medical, psychological or compassionate circumstances the 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 Undergraduate Program Services, Office of Registrarial Services
or the program counsellor. Deadlines for Academic Review Sub-Committee meetings
may 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
Undergraduate Program 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
The student does not follow the approved academic and work schedule including:
   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.
Work Term and Work Preparation 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 Co-op Appeal Committee, according to the procedures outlined in Section VIII of the Undergraduate Calendar under “Academic Consideration, Appeals and Petitions.”

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 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.”

3. Academic Related Appeals

a. If the student is required to withdraw from the Co-op Education program because he/she does not obtain a 3.0 grade point average 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 not normally consider a petition for the resolution of cases involving the jurisdiction of the Undergraduate Academic Consideration Committee.

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 not 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 department 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 event 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 http://www.uwo.ca/hr/hr/hrholidays.shtml or contact the Human Rights and Equity Office.

Academic Accommodation for Students with Disabilities, Guidelines and Procedures

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/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 current 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 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 (e.g., 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 consensus on academic accommodation cannot be reached between the student and the Course Instructor, the CSD should be consulted for advice. If consensus still cannot be reached with the assistance of the CSD, the Course Instructor shall consult the Chair or designate.

d. If, after 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 act, 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.
VIII. Undergraduate Degree Regulations and Procedures, Academic Misconduct

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.

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 calculations, diagrams, constructions, 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.

2. 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).

2. 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 works 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/lri, 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/c08/c08-amisconduct.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 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. 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 designee(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 designee or the Director of Open Learning will carry out the role of the chair 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 dean 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 designee has a conflict of interest in dealing with a case, the dean may appoint an alternate designee 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 designee 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 satisfyingly 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 evidentiary 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 Undergraduate Program Services/Graduate Program Services 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/department'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 the 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 that will be considered 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 Undergraduate Program Services/Graduate Program Services 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 Undergraduate Program Services/Graduate Program Services 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.2 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 Undergraduate Program Services/Graduate Program Services (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 revocation/rescinding of a degree, the recommendation will be forwarded to the President. If the President does not confirm the recommendation of revocation/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/rescinding. 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.

2 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.

b. 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 Undergraduate Program Services/Graduate Program Services (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 the meeting with the student, the dean may meet with any individuals 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 meet 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 Undergraduate Program Services/Graduate Program Services as appropriate to determine whether this is a first offence.

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 the meeting with the student, the dean may consult with any individuals 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 meet 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.

e. If after weighing the available evidence the dean finds that an offence has been committed, the dean will contact Undergraduate Program Services/Graduate Program Services 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).

2. 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**

Undergraduate Program Services, or the Dean 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 Undergraduate Program Services/Graduate Program Services 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 Undergraduate Program Services and Graduate Program Services, 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 - 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</td>
<td>Loss of grades</td>
</tr>
<tr>
<td></td>
<td>(N) Loss of grades</td>
<td>(N) Zero on the assignment</td>
</tr>
<tr>
<td></td>
<td>Zero on the assignment</td>
<td>Loss of scholarship/bursary Suspension</td>
</tr>
<tr>
<td>Major</td>
<td>(N) Zero in the course</td>
<td>Zero in the course</td>
</tr>
<tr>
<td></td>
<td>Loss of scholarship/bursarySuspension</td>
<td>Loss of scholarship/bursary Suspension</td>
</tr>
</tbody>
</table>

2. **Copying**

**Misappropriation of Other’s Work - Copying**

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

3. **Unauthorized Collaboration**

**Misappropriation of Other’s Work - Unauthorized Collaboration**

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

**B. Misrepresentation and Fraud**

1. **Impersonation**

**Misrepresentation and Fraud - Impersonation**

<table>
<thead>
<tr>
<th>Offences</th>
<th>First Offence</th>
<th>Subsequent Offences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor</td>
<td>(N) Zero in the course</td>
<td>Loss of scholarship/bursary Suspension</td>
</tr>
<tr>
<td></td>
<td>Loss of scholarship/bursarySuspension</td>
<td>Zero in the course</td>
</tr>
<tr>
<td>Major</td>
<td>Zero in the course</td>
<td>Loss of scholarship/bursary Suspension</td>
</tr>
<tr>
<td></td>
<td>Loss of scholarship/bursarySuspension</td>
<td>(N) Suspension</td>
</tr>
<tr>
<td></td>
<td>(N) 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>
<th>Subsequent Offences</th>
</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 Suspension</td>
</tr>
<tr>
<td></td>
<td>Zero on the assignment</td>
<td>(N) Zero in the course</td>
</tr>
<tr>
<td></td>
<td>Loss of scholarship/bursarySuspension</td>
<td>Loss of scholarship/bursary Suspension</td>
</tr>
<tr>
<td></td>
<td>(N) Suspension</td>
<td>Expulsion/revocation of admission offer</td>
</tr>
</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>
<th>Offences</th>
<th>First Offence</th>
<th>Subsequent Offences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor</td>
<td>(N) Official warning</td>
<td>Loss of scholarship/bursary Suspension</td>
</tr>
<tr>
<td></td>
<td>Loss of grades</td>
<td>(N) Zero in the course</td>
</tr>
<tr>
<td></td>
<td>Resubmission of work</td>
<td>Loss of scholarship/bursary Suspension</td>
</tr>
<tr>
<td></td>
<td>Zero on the assignment</td>
<td>(N) Suspensions</td>
</tr>
<tr>
<td></td>
<td>Loss of scholarship/bursarySuspension</td>
<td>Expulsion/Revocation of degree or admission offer</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/bursarySuspension</td>
<td>Loss of scholarship/bursary Suspension</td>
</tr>
<tr>
<td></td>
<td>(N) Suspension</td>
<td>Expulsion/revocation of degree or admission offer</td>
</tr>
</tbody>
</table>
4. Unauthorized Aids

Misrepresentation and Fraud - Unauthorized Aids

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

2. Obstruction and Interference

Improper Access and Obstruction - Obstruction and Interference

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

3. Improper Access

Improper Access and Obstruction - Improper Access

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

4. Improper Dissemination

Improper Access and Obstruction - Improper Dissemination

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

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 Undergraduate Program 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 counsellor 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 Undergraduate Program Services, Office of Registrarial Services.

The Associate Registrar, Undergraduate Program 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 required to withdraw from the University for a minimum of two semesters (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 requisite(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" form available from Undergraduate Program 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 counsellor for advice on the preparation and submission of requests for academic consideration.
Distance Education Courses

Distance Education courses may be added up to the end of the add period, with the permission of the Office of Open Learning.

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 these 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 Undergraduate Program 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.

Auditing 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</th>
<th>Class Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-progress</td>
<td></td>
</tr>
<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>
<tr>
<td>12.75 - 15.00</td>
<td>6</td>
</tr>
<tr>
<td>15.25 - 17.50</td>
<td>7</td>
</tr>
<tr>
<td>17.75 - 20.00</td>
<td>8</td>
</tr>
<tr>
<td>20.25 - 22.50</td>
<td>9</td>
</tr>
<tr>
<td>22.75 (or more)</td>
<td>10</td>
</tr>
</tbody>
</table>

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 3 is outlined in the Diploma Program Calendar and is only applicable to students registered in a Diploma program.

Schedule 4 is outlined in the Degree Programs section of this calendar (Section X--Doctor of Veterinary Medicine) and is only applicable to students registered in the Doctor of Veterinary Medicine program.

Schedule 5 is outlined in the Degree Programs section of this calendar (Section X--Doctor of Veterinary Medicine) and is only applicable to students registered in the Doctor of Veterinary Medicine program.

Schedule 1

Schedule 2

Schedule 1 Rules

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 be 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: between 0.25 and 2.50

Students who have attempted between 0.25 and 2.50 credits will be allowed to continue regardless of the cumulative average. Students will be placed on probation if their cumulative average falls below 50%.

### Number of Credit Attempts: 2.75 and 5.00

#### If Eligible to Continue

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>

#### 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>Semester Average (S)</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 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>

#### If on Probation

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

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

### Schedule 2

Normally students who transfer from another university or college will be required to follow Schedule 2. Students who are readmitted to this University but whose prior record renders them ineligible to proceed under Schedule 1 will be required to follow Schedule 2.

#### Schedule 2 Regulations

Continuation of study is permitted provided the student meets the conditions outlined below. In some instances, students not meeting the requirements may be allowed to proceed on probation. 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 time.

The continuation of study regulations are based on the principle that students must be maintaining a 60% average. The details of the continuation of study model follow. The student’s cumulative average will first be reviewed. If it does not meet the required level, the student will either be required to withdraw or placed on probation. Students who are placed on probation will be required to obtain a given semester average in subsequent semesters. As a result of this review, the student will either be required to withdraw, remain on probation, or placed back on regular status. Students will be taken off probation once their cumulative average rises above 60%.

### Continuation of Study is assessed each semester. Students whose cumulative average falls below 60% will be placed on probation for one semester, and then assessed based on their semester average.

#### 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>

#### If on Probation

Continuation of Study Assessment for Students on Probation following Schedule 2

<table>
<thead>
<tr>
<th>Cumulative Average (C)</th>
<th>Semester Average (S)</th>
<th>Status of Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>S &lt; 60%</td>
<td></td>
<td>Required to Withdraw</td>
</tr>
<tr>
<td>S ≥ 60% but C &lt; 60%</td>
<td></td>
<td>Probationary Status</td>
</tr>
<tr>
<td>C ≥ 60%</td>
<td></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 are required to take courses offered in the Continuation of Study. Calculations may appeal a continuation decision to the Academic Review Committee.

### Course Sections

Students 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 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

Undergraduate Program 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 Priorities 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 Undergraduate Program 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 Undergraduate Program 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 Office of Open Learning, http://www.open.queensu.ca/

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

Students not currently registered must contact Undergraduate Program 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, Undergraduate Program 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 proper 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 vary from the form of 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 the Program Coordinator, Undergraduate Program Services, Office of Registrarial Services within 10 days of the release of the grades. 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 deadline 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).

Undergraduate Program 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/st/index.shtml](https://webadvisor.uoguelph.ca/st/index.shtml) and a copy of the form is retained by the instructor and the student. The department notifies Undergraduate Program 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/st/index.shtml](https://webadvisor.uoguelph.ca/st/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 Undergraduate Program 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 term work completed where 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 Undergraduate Program 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 Undergraduate Program 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) initialing all grades submitted by instructors and forwarding them to the Undergraduate Program 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 Undergraduate Program 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](http://www.uoguelph.ca/registrar/undergraduate/files/invigilator_form.pdf).

Registrar's Responsibilities

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

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 fourth 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 fortieth 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 course, 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 fortieth 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 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.

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 mid-term examinations, the deferred final examination must take precedence. The instructor for the class in which the mid-term 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 or due during the final 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. This information must be provided to ORS before the beginning of the semester, and the due date must be noted on the course outline distributed at the first class meeting.

9. Faculty using take-home examinations will determine when a student is dropping a course, for example, when 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.

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.
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 O.R.S. 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 set 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 where two examinations are scheduled into the same timeslot.)

2. ACADEMIC CONSIDERATION IS NOT GIVEN TO STUDENTS WHO MISREAD PUBLISHED TIMETABLES.

3. 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”.

4. 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 Office of Open Learning, 519-767-5000.

5. 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.

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

7. No book, paper, or other aids shall be used during the examination except by permission of the instructor-in-charge. 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.

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

9. 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.

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

11. 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.

12. When more than one book is handed in, students shall number each book and indicate which is their open book examination. Students in Distance Education courses who live more than 170 km from campus must number the book and indicate which is their open book examination on the exam schedule received from Scheduling, one week prior to the commencement of the final examination period.

13. 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 instructor 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:

1. Distributing the “Final Exam Request Form” from Scheduling, to Chairs/Directors or designate approximately six weeks prior to the semester to which it applies and specifying a due date.
2. Approximately 6 weeks prior to the start of final examinations, distributing to Chair/Director or designate a request for final examination room requirement information.
3. For Examinations held in the Athletic Centre shall be under the direction of the Office of Registrarial Services. The Examinations Coordinator or designate will act as Chief Invigilator for all Examinations held in the Athletic Centre and is responsible for the conduct of all such examinations.
4. In the event of a dispute over procedures during Final Examinations in the Athletic Centre, the Chief Invigilator shall have final authority.
5. The Examination Coordinator as Chief Invigilator in the Athletic Centre is responsible for:
   • providing each instructor-in-charge with attendance cards
   • starting and ending examinations
   • assisting the instructor-in-charge to ensure that no student enters the examination room after the first 60 minutes or leaves during the first 60 minutes or the last 15 minutes of the examination period
   • preparing, distributing to Chairs/Directors and making available to instructors-in-charge in the Athletic Centre, a set of guidelines for the instructor-in-charge and invigilators which will assist them in carrying out their duties in the examination rooms

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 the examination 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, Undergraduate Program 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 on 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 Undergraduate Program 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 failed courses by granting a supplemental privilege. It is unlikely that any student with a final grade of less than 40% would meet the requirements of granting 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 whether the outcome resulted in credit (P) or not (F).
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>
</tr>
<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>
<td>73-76</td>
</tr>
<tr>
<td>B-</td>
<td>70-72</td>
</tr>
</tbody>
</table>

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.
A more than 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

Undergraduate Program 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 Undergraduate Program 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 Undergraduate Program 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 Undergraduate Program 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 Undergraduate Program 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 Undergraduate Program Services, Office of Registrarial Services.

Registrar's Responsibilities

Undergraduate Program 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 Undergraduate Program 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 succeeding 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 Undergraduate Program 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 outcome 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 day of the subsequent semester and 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.

2011-2012 Undergraduate Calendar

Last Revision: March 15, 2014
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 Undergraduate Program 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 an 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.

B. Certificate and Diploma Programs

To be granted a Certificate or Diploma, the conditions outlined in Section XI--Certificates and Diplomas must be satisfied using the calendar that is in effect at the time of admission to the General Studies program or the Non-Degree category, or at the time of declaration of the Certificate or Diploma. Students who are granted a Certificate or Diploma do not convocate, but have the designation shown on their transcript.

C. Procedures

Graduation Fee

A degree and graduation fee is assessed to students at the time of application for graduation. Students who apply for more than one degree are assessed a graduation fee for each degree awarded at convocation. The fee in effect at the time of the application is the amount assessed.

Student’s Responsibilities

A student must submit a formal application in order to be considered as a candidate for a degree or diploma at a specific convocation. There are three convocation periods throughout the year-- early October, mid-February, and early June. Formal convocation ceremonies, however, are held only in mid-February, and early June. An application for graduation must be submitted by the student no later than the deadline for the specific convocation period as specified in Section III--Schedule of Dates.. Late applications will be accepted with the submission of a late fee (refer to Section VI--Schedule of Fees). Following submission of the application to graduate, the student will receive confirmation of the application, along with information on subsequent procedures. An additional late fee will be assessed in those cases where changes are requested by the student after the deadline date as this will affect the printing of the degree/diploma parchment.

Although the Office of Registrarial Services will attempt to send an e-mail to every potential graduate inviting them to apply to graduate via WebAdvisor for Students (My Application for Graduation), it is the student’s responsibility to ensure that they submit their application for graduation by the published deadline dates in Section III--Schedule of Dates. Specific applications details are as follows:

Application for a Certificate or Diploma

A student who is registered in the General Studies program or the non-degree program and who expects to complete the requirements as set down in Section XI of the calendar for one of the certificate or diploma programs, should submit an “Application for Completion of Certificate or Diploma” form available from the Convocation Clerk, Undergraduate Program Services, Office of Registrarial Services.

Application for Graduation from Degree Programs

An e-mail inviting students to apply to graduate via Web-Advisor for students (My Application for Graduation) will be sent to each student registered in a general degree program when his/her completed plus inprogress credits equal 15.00 credits or more; and to students registered in an honours degree program when their completed plus inprogress credits equal 20.00 credits or more. All other students with an active academic program who wish to apply to graduate may access ‘My Application for Graduation’ on WebAdvisor for Students.
Students who are not currently active students must submit a hard-copy Application for Graduation form, accompanied by the appropriate fee. This form and instructions for the completion of the application are available at [http://www.uoguelph.ca/regweb/publications/index.shtml](http://www.uoguelph.ca/regweb/publications/index.shtml).

It is the responsibility of the student to submit the completed form prior to the published deadline date.

### Application for Honours Equivalent

A student who is registered in an honours equivalent program who expects to complete the requirements as set down in the calendar for one of the honours programs, should submit an "Application for Completion of Honours Equivalent" form available from the Convocation Clerk, Undergraduate Program Services, Office of Registrarial Services. The same deadlines for applications to graduate apply to the applications for honours equivalent.

### Chair's Responsibilities

The department chair receives both the Academic Evaluations for all students who have applied for a degree with a specialization administered by that department and a listing of those students. The department chair (or designate) must review these records to determine if each student has satisfied:

1. general University requirements,
2. overall program requirements and
3. specialization requirements.

Each check is to be reported on the form supplied, and the form is to be forwarded to the program counsellor by the date specified on the accompanying memorandum. If an applicant satisfies the requirements for the degree, or diploma sought, Registrarial Services will report the name of the student to the Provost and Vice-President Academic. If an applicant fails to satisfy any requirement(s), Registrarial Services will inform the student of that decision.

### Registrar's Responsibilities

Undergraduate Program Services issues an Application for Graduation process for the appropriate group of regular and special students. Undergraduate Program 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 ceremony.

Undergraduate Program Services forwards Academic Evaluation and check sheets to department chairs to obtain decisions on eligibility of the applicants. Undergraduate Program Services informs students not approved by the departments of the rejection and the reasons for it.

The Registrar will present a list of all recommended graduands to the Provost and Vice-President Academic 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 Undergraduate Program 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, Undergraduate Program 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 Undergraduate Program 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.

### 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 Undergraduate Program 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, Undergraduate Program 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 time 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 Undergraduate Program 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 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.

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.
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 Undergraduate Program Services, Office of Registrarial Services within 10 class days of the commencement of classes. Appeal forms are available from Undergraduate Program 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 Assistant Registrar, Undergraduate Program 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 course 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) interest 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 on 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 enrolments 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 Undergraduate Program 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. Note: It is the Program Counsellor's responsibility to change a student from “Special” to “Regular” student type.

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).

Note: Students in the B.Eng. Program should refer to the B.Eng. Program regulations under Conditions for Continuation of Study in Section X.

Note: Students in the D.V.M. Program should refer to the D.V.M. Program regulations under Conditions for Continuation of Study in Section X.

Procedures for Supplemental Privileges

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. Undergraduate Program 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 Undergraduate Program 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, Undergraduate Program Services will inform both the student and the instructor. Similarly, when a supplemental privilege has been requested and granted Undergraduate Program 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 invigilating these examinations and will prepare the completed examinations for pickup, notifying the Chair/Director or designate when they are available.

3. Undergraduate Program 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 Undergraduate Program Services, Office of Registrarial Services. The order can be placed by mail, by facsimile or in person:

Mail (cheque or money order): Undergraduate Transcripts, Undergraduate Program 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.

NOTE: Official Open Learning program transcripts must be ordered by submitting the "Request for Transcript" form along with payment to the Office of Open Learning. The order can be placed by mail, facsimile or in person.

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 counsellor 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 Undergraduate Program 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 consult with 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 Undergraduate Program 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 Undergraduate Program 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 Undergraduate Program 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 Undergraduate Program 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 that 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 Undergraduate Program Services, Office of Registrarial Services, within thirty days of the withdrawal.

A student who withdraws from the University after the fortieth 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 fortieth class day. Students should consult with Undergraduate Program 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 Sub-Committee, 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;  

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.
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 entrants and 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.

Last Revision: March 15, 2014
 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

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 offered 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 4-H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4-H clubs. The committee will consider any appropriate elements, such as the length of membership in 4-H, leadership roles in support of 4-H, creativity in 4-H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4-H 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 [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% average or better 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 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. 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. 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): Graduates 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 on the basis of 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 Thames 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
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 Annes 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 Annes
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

IX. Scholarships and Other Awards, Bachelor of Applied Science

Emby 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 Chancellor's 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

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. Students 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 [E0179]

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. The scholarship 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): Jack and Lillian MacDonald
Qualification(s): Students entering the Six Nations Polytechnic (SNP).
Amount: 1 award of $3,000

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 B.ASc. program in the Department of Family Relations and Applied Nutrition.
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. Applicants must submit all relevant documentation for admission consideration by March 1. Students 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 [E0179]

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. The scholarship 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): Jack and Lillian MacDonald
Qualification(s): Students entering the Six Nations Polytechnic (SNP).
Amount: 1 award of $3,000

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 B.ASc. program in the Department of Family Relations and Applied Nutrition.
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>Kelly Bertrand Cross Country Scholarship [E0684]</td>
<td>$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>L.A. Beattie &amp; J.C. Beattie Memorial Scholarship [E0026]</td>
<td></td>
<td>Students entering the BAs program.</td>
<td>The estate of Jessie L. Beattie</td>
</tr>
<tr>
<td>Larry Pearson Men’s Volleyball Athletic Scholarships [E0618]</td>
<td></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>Latifpour-Keparoutis Family Varsity SwimTeam Scholarship [E0732]</td>
<td></td>
<td>Students entering the varsity swim team and who has achieved a minimum 80% admission average.</td>
<td>Maryam Latifpour-Keparoutis</td>
</tr>
<tr>
<td>Lincoln Alexander Scholarships [E0689]</td>
<td>$1,200</td>
<td>Many Donors. 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>$1,000</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>$1,000</td>
<td>Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.</td>
<td>Wilhelmina McArthur-Humphries Trust Fund</td>
</tr>
<tr>
<td>Men's Basketball Scholarships [E0638]</td>
<td>$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>Moulton-Hutchinson Family Track and Field Scholarship [E0705]</td>
<td></td>
<td>Students entering any degree program who have been interviewed for family and friends of the late Lloyd Dorr.</td>
<td>The Moulton and Hutchinson Families</td>
</tr>
<tr>
<td>Out-of-Province Women’s Middle Distance Running Scholarship [E0635]</td>
<td></td>
<td>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 participate in the University of Guelph.</td>
<td>Many Donors</td>
</tr>
<tr>
<td>Pamela Wallin Chancellor’s Scholarships [E0688]</td>
<td>$1,500</td>
<td>Students entering any degree program who have been interviewed for consideration for a President’s or Chancellor’s Scholarship.</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>President’s &amp; Chancellor’s Finalists Scholarship [E0651]</td>
<td></td>
<td>Students entering any degree program who have been interviewed for consideration for a President’s or Chancellor’s Scholarship.</td>
<td>Provost, and Vice-President Academic of the University of Guelph</td>
</tr>
</tbody>
</table>

Last Revision: March 15, 2014 2011-2012 Undergraduate Calendar
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 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.

Burtton C. Matthews
The University of Guelph has named one of these twelve prestigious entrance awards in honour of Burtton 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 one $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 $3000 each

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

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
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 Klop 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 Klop
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 as a means 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 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 2016, 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
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
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. The winner is chosen from the list of alternates for the President’s Scholarships. President’s Scholarship nominees 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. During the summer after the 3rd year, the scholars will propose, to Student Financial Services, an enrichment experiential undertaking related to the student's field of study; the grant application should include a detailed budget. A grant of up to $1,200 is available to support the undertaking, subject to continuing financial need and approval of the proposal by Student Financial Services. Upon completion, the student will write a report of the experience to Student Financial Services. ACCESS AWARD.

Donor(s): The Blount Foundation, Inc.
Qualification(s): Students who have been nominated for a President’s Scholarship with demonstrated financial need and entering one of the following programs on an annual rotation: B.A. in 98/99, then BAsc., B.Comm., B.Sc., B.Sc.(Agri.), B.Engr., B.Ag.(Env.). Recipients must maintain a B+ average or higher, continue to demonstrate financial need and be full-time students in order to qualify for subsequent installments. 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)

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
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 Chancellor's 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)
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Details</th>
</tr>
</thead>
</table>
| **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 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): Rol-Land Farms  
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 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. ACCESS AWARD  
Donor(s): Anonymous  
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 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): The Mitchell Family  
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 OTSSS award (see General Statements on Awards).  
Amount: 1 award of $1,350 |
| **Entrance Bursaries** | 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 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 $1,700 |
| **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 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: 300 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 |
| **Tammie Nevills Memorial Bursary [E3541]** | The family and friends of the late Tammie 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 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. ACCESS AWARD  
Donor(s): The family and friends of Tammie Nevills (FACS '81)  
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, then to Waterloo 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 |
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Information</th>
</tr>
</thead>
</table>
| 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                                                          |                                                                                                                                                                                                            |
| 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 |
| 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 |
| 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. 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. Alun Joseph Dean of the College of Social and Applied Human Sciences  
**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 with a one-page description of contributions to student activities by May 15. 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 Alumni Association  
**Qualification(s):** Full-time student registered in a program offered by the Department of Family Relations and Applied Nutrition who has 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 [I038]                                        | 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 collegiate 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 |
| Certified General Accountants of Ontario Prize for Excellence [C0025]          | Awarded to the graduating student with the highest average in the three accounting courses listed. Application is not required.  
**Donor(s):** Certified General Accountants of Ontario  
**Qualification(s):** A graduating student who has a minimum 80% cumulative average in Intermediate Accounting ACCT*3330, Intermediate Financial Accounting ACCT*3340, Management Accounting ACCT*2230 and Intermediate Management Accounting ACCT*3230.  
**Amount:** 1 award of $500, plus 1 year tuition and course fee towards the CGA program. (approximate value of $2,500) |
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Sponsor</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFRU Volunteer Award [I0215]</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>2 awards of $250</td>
</tr>
<tr>
<td><strong>Class of 1970 Scholarship [I0424]</strong></td>
<td></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>1 award of $1,400</td>
</tr>
<tr>
<td><strong>Class of Mac ’30 Scholarship [I0674]</strong></td>
<td></td>
<td>Students registered in the BASc. program who have completed between 10.0 and 12.5 credits.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>Class of Mac ’65 Scholarship [I0579]</strong></td>
<td></td>
<td>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>
<td>1 award of $800</td>
</tr>
<tr>
<td><strong>Coach Rudy Florio Football Scholarship [I0737]</strong></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>1 award of $3,500</td>
</tr>
<tr>
<td><strong>Collins Barrow Award [I0040]</strong></td>
<td>Collins Barrow Chartered Accountants</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>1 award of $500</td>
</tr>
<tr>
<td><strong>CSAHS Student Volunteer Scholarship [I0482]</strong></td>
<td>Harshman Fellowship Society and Pfizer Canada Inc.</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>
<td>1 award of $450 plus an equal amount to the charitable organization of the recipient’s choice</td>
</tr>
</tbody>
</table>

### 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 is 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 Britton Memorial Scholarship [I0015]

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.

**Donor(s):** The Estate of Dorothy Britton

**Qualification(s):** 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.

**Amount:** 7 awards of $3,000

### 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

### 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

### Elizabeth Landels Casselman Scholarship [I0050]

Awarded from the estate of Elizabeth Landels Casselman, MAC ’36. Apply by May 15 to Department of Family Relations and Applied Nutrition with the Department’s application form and a CV with a comprehensive listing of extracurricular activities and leadership roles. Awarded in the fall semester.

**Donor(s):** Elizabeth Landels Casselman Estate

**Qualification(s):** 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.

**Amount:** 1 award of $1,250

### Ellen Nilsen Memorial Scholarship [I0047]

Apply to the Director for International Development Studies with a transcript, cv/resume, and a cover letter outlining how past experiences demonstrate a commitment to social change by January 30th. Preference will be given to a student registered in a Graduate program at the University of Guelph.

**Donor(s):** The Friends of Ellen Nilsen

**Qualification(s):** Registered academically outstanding female students from developing countries who have demonstrated a commitment to social change.

**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. 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):** 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

### Ethel M. Christie Scholarship [I0057]

Established by Dr. George I. Christie, former President of the Ontario Agricultural College, and his daughter, Margaret C. Hearn, in memory of Ethel M. Christie. This scholarship will be awarded to the student who has achieved highest average in all English courses completed. Application is not required.

- **Donor(s):** Dr. George I. Christie & Margaret C. Hearn
- **Qualification(s):** Students registered in the BASc. program who have completed at least 14.5 credits including at least 1.0 in an English course.
- **Amount:** 1 award of $200

### Evelyn Matheson Pepper Memorial Scholarship [I0538]

The daughters and grandchildren of Evelyn Matheson Pepper, a Mac ‘33 graduate, provide this scholarship. Application is not required.

- **Donor(s):** Ms. Barbara Stuart and Ms. Susan Pepper
- **Qualification(s):** Student who achieves the highest grade in the course FRHD*3200, Practicum Child, offered by the department of FRAN.
- **Amount:** 1 award of $1,000

### 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

### Gertrude R. Peterson Memorial Scholarship [I0234]

Established by Mr. Eugene Peterson in honour of his wife, Gertrude R. Peterson, a Macdonald Institute grad from 1927. This scholarship is awarded to the student that has achieved the highest grade in the course. Application is not required.

- **Donor(s):** Mr. Eugene Peterson
- **Qualification(s):** Student in the BASc. program who have completed FRHD*3400, Communication and Counselling Skills.
- **Amount:** 1 award of $1,000

### 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

### 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

### 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
### IX. Scholarships and Other Awards, Bachelor of Applied Science

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Helen G. West Memorial Scholarship</strong> [10512]</td>
<td>1 award of $1,800</td>
<td>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.</td>
<td>Nancy Sawyer, Mary Helen Simpson, their families and Belle Shirlaw</td>
</tr>
<tr>
<td><strong>International Undergraduate Scholarship</strong> [10577]</td>
<td>1 award of $1,000</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%, and is registered at the time of application.</td>
<td>International Student Organization (ISO)</td>
</tr>
<tr>
<td><strong>Jack and Lillian MacDonald Scholarship</strong> [E0379]</td>
<td>1 award of $1,000</td>
<td>Entering students coming from the Six Nations Polytechnic (SNP).</td>
<td>Jack and Lillian MacDonald</td>
</tr>
<tr>
<td><strong>Janet M. Wardlaw Medal</strong> [C0096]</td>
<td>1 award of $900</td>
<td>Present to the Department of Family Relations and Applied Nutrition's nominee for the Winegard Medal.</td>
<td>Faculty, staff, alumni and students, formerly FACS</td>
</tr>
<tr>
<td><strong>Jean C. Bradley Memorial Prize</strong> [C0032]</td>
<td>1 award of $300</td>
<td>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.</td>
<td>Mac-FACS-FRAN</td>
</tr>
<tr>
<td><strong>Jean Carter Memorial Gerontology Scholarship</strong> [10488]</td>
<td>1 award of $1,000</td>
<td>Students majoring in Gerontology or Adult Development, Families &amp; Well-Being in the BASc. program who have completed at least 10.0 credits and have a minimum 70% cumulative average.</td>
<td>Mr. Robert N. Carter and Family</td>
</tr>
<tr>
<td><strong>Joan (Ellerington) Tanner Memorial Prize</strong> [C0279]</td>
<td>1 award of $1,000</td>
<td>Full-time students in the BASc. program that is graduating in either the fall, winter or spring.</td>
<td>Professor J. Tanner and family</td>
</tr>
<tr>
<td><strong>John Eccles Scholarship</strong> [10093]</td>
<td>1 award of $600</td>
<td>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.</td>
<td>Student Housing Services</td>
</tr>
<tr>
<td><strong>Katherine Fuller Scholarship</strong> [10107]</td>
<td>1 award of $2,000</td>
<td>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%.</td>
<td>Mac-FACS-FRAN Alumni Association</td>
</tr>
<tr>
<td><strong>Kelly Bertrand Cross Country Scholarship</strong> [10684]</td>
<td>1 award of $2,000</td>
<td>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.</td>
<td>Kelly Bertrand</td>
</tr>
<tr>
<td><strong>Ken and Marilyn Murray Scholarship</strong> [10734]</td>
<td>1 award of $2,000</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>
<td>Dr. Kenneth G. Murray C.M., OAC BSA ’50 and Honourary Doctor of Laws ’96, and Mrs. Marilyn C. Murray, Mac BHS ’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>
</tr>
<tr>
<td><strong>Kenneth W. Hammond Prize</strong> [10045]</td>
<td>1 award of $1,000</td>
<td>Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.</td>
<td>Kenneth W. Hammond</td>
</tr>
</tbody>
</table>

---

### 2011-2012 Undergraduate Calendar

*Last Revision: March 15, 2014*
Kevin Durie Memorial Scholarship [I0653]
Established in memory of Kevin Durie, BA ’93, by his family and friends. The award will be made on the basis of outstanding service as a Residence Life staff member, 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. Apply by October 31st to Student Housing Services, Associate Director, Residence Life and Family Housing and include a letter of reference and personal statement.

**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

Latifpour-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 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

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]
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 $1,000

May B. Stewart Scholarships [I0270]
Established in honour of Mrs. May B. Stewart, the wife of company President, Mr. Walter M. Stewart. Awarded to the student with the highest cumulative average. Application is not required.

**Donor(s):** W.C. Macdonald Company, Montreal now The Macdonald Stewart Foundation

**Qualification(s):** Students registered in the BASc. program who have completed between 10.0 and 15.0 credits.

**Amount:** 1 award of $500
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

Morton and Pauline Schmidt Memorial Scholarship [I0429]

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

Nelson Women's Institute Scholarship [I0587]

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 [I0160]

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 [I0340]

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

Out-of-Province Women's Middle Distance Running Scholarship [I0635]

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
Qualification(s): In-course student-athlete who is a current member of the Women's Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario.
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 with a letter including 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

Eleanor E. Wein Scholarship [I0016]

This award will be provided to the student with the highest academic standing. Application is not required.

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

Russell Athletic Scholarships [I0722]

The recipients 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 necessary.

Donor(s): H.D. Brown Enterprises Ltd.
Qualification(s): Students graduating from the Applied Human Nutrition major of the BASc. program who have been accepted a dietetic internship.
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 a minimum 70% cumulative average.
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
### IX. Scholarships and Other Awards, Bachelor of Applied Science

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Susan E. Bain Memorial Scholarship</strong> [I0679]</td>
<td>Family, friends and former colleagues of Susan E. Bain Allen</td>
<td>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.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Thomas H. Peters Scholarship</strong> [I0233]</td>
<td>Friends and associates of Thomas H. Peters</td>
<td>Student in any academic program who has completed courses in Land Reclamation (e.g. CROP2280, SOIL3200), 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><strong>Van Stralen and Van Der Hoeven Memorial Scholarship</strong> [I0296]</td>
<td>Mr. &amp; Mrs. J. Van Stralen &amp; family &amp; 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 70% standing.</td>
<td>2 awards of $400</td>
</tr>
<tr>
<td><strong>Vera Ayres MacBeth Scholarship</strong> [I0159]</td>
<td>Mr. Bernard Ward</td>
<td>Full-time students registered in the BASc program who have completed between 2.5 and 7.5 credits.</td>
<td>1 award of $400</td>
</tr>
<tr>
<td><strong>Virginia McEwen Memorial Scholarship</strong> [I0186]</td>
<td>Mr. &amp; Mrs. and family</td>
<td>Students registered in any degree or associate diploma program at any University 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.</td>
<td></td>
</tr>
<tr>
<td><strong>United Steelworkers Local 4120 Scholarship</strong> [I0293]</td>
<td>United Steelworkers LU 4120</td>
<td>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.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>University of Guelph Alumni Legacy Scholarship</strong> [I0735]</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>
</tbody>
</table>
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 $3,000

**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

**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

**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, 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 May 15 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):** A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This award is payable in the second year (ie. completed 5.0 course credits) of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.

**Amount:** 1 award of $2,000

**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

**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:** 2 awards 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.

**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

**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
IX. Scholarships and Other Awards, Bachelor of Applied Science

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

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 $5,000

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

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

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 OSOTF 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

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 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

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

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: 1 award of $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

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

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

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services.

**Tara Lynn Giuliani Memorial Scholarship [I0375]**

**Donor(s):** The Giuliani Family  
**Qualification(s):** Most academically promising applicant with a demonstrated disability and having financial need.  
**Amount:** 1 award of $880

**Tony and Anne Arrell Scholarships [I0868]**

Tony Arrell, OAC Bsc (Ag) ’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.

**Walter and Marion MacDougald 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 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  
**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

**In-course Bursaries**

**Archie and Isabelle (Cook) Rintoul Bursary (FRAN) [I3018]**

Offered by Archie, OAC ’26, and Isabelle (Cook), MAC ’27, Rintoul. 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 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 need.  
**Amount:** 1 award of $1,000

**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

**In-course Awards**

**Tony Arrell, OAC Bsc (Ag) ’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.**

**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

**Nowell Family Community Service Award [I1854]**

Established by the family of Nowell Family, the Nowell Family Scholarship is open to students enrolled in the program of their choice who have demonstrated a commitment to community service. 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):** Nowell Family  
**Qualification(s):** Students who have demonstrated a commitment to community service.  
**Amount:** 1 award of $2,000

**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. ACCESS AWARD.

**Donor(s):** Doug MacDougald, D.V.M.  
**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 $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 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  
**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

2011-2012 Undergraduate Calendar  
Last Revision: March 15, 2014
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
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
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
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 up to $2000

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
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

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
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

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
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 [13099]
Mrs. Norma L. Valeriote has made available a number of bursaries. Apply to the International Student Advisor with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services 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

Marie Hardacre Bursary [13548]
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
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 L. Whitelock Bursaries [13524]
Established by the estate of Mary L. 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 L. Whitelock
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 [13012]
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.

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 [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

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 [13532]
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
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

Stoney Creek Women’s Institute Bursaries [13017]
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 [13522]
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
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 [13523]
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
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

Last Revision: March 15, 2014
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.

**University of Guelph Child Care Bursaries [I3053]**

- **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 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

**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 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. Latonnel Undergraduate Travel Grants [T0058]**

An endowment fund established in memory of Arthur D. Latonnel, 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. Latonnel
- **Qualification(s):** Students travelling as part of their program who have completed a minimum of 4.0 credits; have a cumulative average of 70%; have demonstrated financial need; and will be travelling for academic reasons. The funds are given to provide twenty-five travel grants.
- **Amount:** Up to 80% of estimated travel costs 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 OSEO 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
- **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
**Kiyoko Miyanishi International Travel Grant [T0742]**

Established by Dr. Kiyoko Miyanishi, 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 Miyanishi 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

**Ontario International Education Opportunity Scholarship (OIEOS) [T0614]**

On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

**Donor(s):** Government of Ontario  
**Qualification(s):** Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.  
**Amount:** approximately 71 awards of $2,500

**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)  
**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 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):** The Estate of Richard Hungerford  
**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**

**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

**Alumni Entrance Merit Scholarship, College of Arts [E0477]**
Established the College of Arts and the Development and Public Affairs Office. Application is not required.

- **Donor(s):** Development and Public Affairs Office
- **Qualification(s):** Student entering the B.A. program in the College of Arts in the Fall semester with the highest admission average.
- **Amount:** 1 award of $1,000

**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)

**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

**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 [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

**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
<table>
<thead>
<tr>
<th>Scholarship Title</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount:</th>
<th>Application Required?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]</td>
<td>Various Donors</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>
<td>No</td>
</tr>
<tr>
<td>Earl B. MacNaughton Entrance Scholarships [E0172]</td>
<td>Earl B. MacNaughton</td>
<td>Students with high academic standing, entering an honours program in the College of Physical and Engineering Science.</td>
<td>4 awards of $1,000</td>
<td>No</td>
</tr>
<tr>
<td>Elaine Scott-Thomas Track and Field Scholarship [E0706]</td>
<td>Dave Scott-Thomas CBS BSc ‘88</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 $1,500</td>
<td>No</td>
</tr>
<tr>
<td>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [E0627]</td>
<td>Ernest Kendall</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>2 awards of $1,350</td>
<td>No</td>
</tr>
<tr>
<td>Football Endowment Fund (FEF) Scholarship [E0644]</td>
<td>Various University of Guelph donors</td>
<td>Entering student-athlete who is a member of the Men's football team and who has achieved a minimum 80% admission average.</td>
<td>various awards of $750 to $3,500</td>
<td>No</td>
</tr>
<tr>
<td>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]</td>
<td>George Ames</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>1 award of $3,500</td>
<td>No</td>
</tr>
<tr>
<td>Gerd and Christel Baldauff Men's Basketball Scholarship [E0639]</td>
<td>Dr. Christian Baldauff</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>
<td>1 award of $3,500</td>
<td>No</td>
</tr>
<tr>
<td>Gryphon Athletic Scholarships [E0631]</td>
<td>University of Guelph</td>
<td>Entering student-athlete who is a member of a varsity team and who has achieved a minimum 80% admission average.</td>
<td>1 award of $1,400</td>
<td>No</td>
</tr>
<tr>
<td>Hardy International Student Scholarship [E0659]</td>
<td>Mrs. Marion Hardy</td>
<td>Full-time international students (defined as paying the international student tuition and fees) entering any degree program.</td>
<td>various awards of $750 to $3,500</td>
<td>No</td>
</tr>
<tr>
<td>Honours Mathematics or Statistics Scholarship [E0131]</td>
<td>Faculty of the Department of Mathematics and Statistics, via the C.P.E.S. Scholarship Fund</td>
<td>Students entering semester one of the Honours Mathematics or Statistics degree program.</td>
<td>1 award of $500</td>
<td>No</td>
</tr>
<tr>
<td>International Student Entrance Scholarships [E0408]</td>
<td>University of Guelph</td>
<td>Student entering any degree program at the University of Guelph.</td>
<td>1 award of $500</td>
<td>Yes</td>
</tr>
<tr>
<td>J.D. MacLachlan Scholarship [E0170]</td>
<td>The J.D. MacLachlan Trust</td>
<td>Students entering any degree program at the University of Guelph.</td>
<td>1 award of $1,500</td>
<td>Yes</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): Jack and Lillian 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 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 other awards including 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 80% 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 Dor Memorial Hockey Scholarship [E0708]
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 Dor
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

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

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 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

Out-of-Province Women’s Middle Distance Running Scholarship [E0635]
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
Qualification(s): Entering student-athlete who is a member of the Women’s Middle Distance team, who has achieved a minimum 80% admission average and whose permanent residence is outside of Ontario.
Amount: 1 award of $1,500
### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>University of Guelph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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.</td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Provost, and Vice-President Academic of the University of Guelph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students entering any degree program who have been interviewed for consideration for a President’s or Chancellor’s Scholarship.</td>
</tr>
<tr>
<td>Amount:</td>
<td>several awards of $500</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 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  
Mrs. Helen Quinn (O.A.C. ’35)  
Charles S. Humphrey |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td></td>
</tr>
</tbody>
</table>
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.  
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.  
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. |
| Amount: | 
2 awards of $32,000 ($6,500 annually for 4 years of study plus one $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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Various Donors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</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>
</tr>
<tr>
<td>Amount:</td>
<td>up to 10 $3000 each</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mrs. Helen Quinn (O.A.C. ’35)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Entering semester one of an O.A.C. program to an international full-time student or an international exchange student with a preference to those students from developing nations.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $1,500</td>
</tr>
</tbody>
</table>
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

Telephone City Broadcast Ltd. Entrance Scholarship in Music [E0753]

The award will be given to the student who best combines musical achievement and community service with high academic achievement. Apply by April 15th to the Chair of the Awards Committee, School of Fine Art and Music outlining the accomplishments in academics, music and community service.

**Donor(s):** Telephone City Broadcast Ltd.  
**Qualification(s):** Students who are Canadian or Permanent residents entering into the Bachelor of Arts program with a major in Music.  
**Amount:** 1 award of $1,200

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 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 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, 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 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):** 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

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 [E0748]

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 scholarships@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 2016, 2017 and 2020, respectively. 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  
**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  
**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. The winner is chosen from the list of alternates for the President's Scholarships. President's Scholarship nominees 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. During the summer after the 3rd year, the scholars will propose, to Student Financial Services, an enrichment experiential undertaking related to the student's field of study; the grant application should include a detailed budget. A grant of up to $1,200 is available to support the undertaking, subject to continuing financial need and approval of the proposal by Student Financial Services. Upon completion, the student will write a report of the experience to Student Financial Services. ACCESS AWARD.

**Donor(s):** The Blount Foundation, Inc.  
**Qualification(s):** Students who have been nominated for a President's Scholarship with demonstrated financial need and entering one of the following programs on an annual rotation: B.A. in 98/99, then B.Asc., B.Comm., B.Sc., B.Sc.(Agr.), B.Eng., B.Sc.(Env.). Recipients must maintain a B+ average or higher, continue to demonstrate financial need and be full-time students in order to qualify for subsequent installments. 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)

## 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):** Norman L. Gibbins  
**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 Chancellor's 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 worked, 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 |
| 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 |
| 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 |
| 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 |

### William Guy Walton Scholarship [E0671]

As Mr. Walton owned a family farm where the Scarborough Town Centre now sits, he wanted to help young people from that area and encourage support for agriculture. Selection will be based on academic achievement, demonstrated leadership ability and involvement in the community. Financial need may also be considered. Apply by April 15 to Student Financial Services with a letter, not more than two pages, outlining demonstrated leadership, volunteer service in the community along with a completed Financial Need Assessment Form for Entrance Awards.

| Donor(s): | Estate of William Guy Walton |
| Qualification(s): | Students from any Scarborough, Ontario high school entering any program offered by O.A.C. |
| Amount: | 1 award of $5,000 |

### Entrance Bursaries

#### 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 (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 |
| 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 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 $1,700 |

#### 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

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 [I0296]

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 [I0176]

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

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 O.A.-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

University of Guelph

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. 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 would be used to support 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

Andrea Laatsch Scholarship [I0168]

Application is not required.

Donor(s): The friends of Andrea Laatsch
Qualification(s): Student who has high academic standing in the 2nd year of the German Studies program during the preceding calendar year and has made significant contributions to the University community.
Amount: 1 award of $300

Anna Graham Technical Theatre Studies Scholarship [I0683]

Established in memory of Anna Graham to recognize passionate student involvement in technical dramatic production. Selection will be based on high academic achievement and involvement and interest in technical theatre studies as demonstrated through course work, theatre practice, and summer related work experience. Apply by May 15th to the College of Arts Awards Committee with a letter outlining the technical theatre course(s) completed and/or involvement in technical theatre studies and summer related work experience or information about your involvement in theatre activities.

Donor(s): Jon Halliwell
Qualification(s): Students registered in the Theatre Studies major who have completed a minimum of 10.0 credits with a minimum 70% cumulative average.
Amount: 1 award of $1,000

Austrian Embassy Prize [I0022]

Provided by the Austrian Embassy. May be awarded in addition to Swiss or German Consulate Prizes. Application is not required.

Donor(s): The Austrian Embassy
Qualification(s): Advanced students of German who have shown excellence in the past two semesters, but need not be graduating.
Amount: 2 Book prizes

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

2011-2012 Undergraduate Calendar

Last Revision: March 15, 2014
**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

---

**C.A.S.U. (College of Arts Student Union) Book Prizes [I0155]**
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 and cultural life of the University of Guelph.

**Amount:** 8 Book prizes

---

**C.A.S.U. (College of Arts Student Union) Prize [I0161]**
Applying 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 once only.

**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

---

**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

---

**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

---

**Certified General Accountants of Ontario Prize for Excellence [C0025]**
Awarded to the graduating student with the highest average in the three accounting courses listed. Application is not required.

**Donor(s):** Certified General Accountants of Ontario  
**Qualification(s):** A graduating student who has a minimum 80% cumulative average in Intermediate Accounting ACCT*3330, Intermediate Financial Accounting ACCT*3340, Management Accounting ACCT*2230 and Intermediate Management Accounting ACCT*5230.

**Amount:** 1 award of $500, plus 1 year tuition and course fee towards the CGA program. (approximate value 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

---

**Charles McGowan Memorial Prize [C0187]**
Established in memory of the late Lieutenant Charles McGowan. Application is not required.

**Donor(s):** Charles McGowan Memorial Foundation  
**Qualification(s):** Outstanding graduating student in an O.A.C. degree program.

**Amount:** 1 award of $300

---

**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 $1,400

---

**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. department who have 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 (Winegard Medal Nominee) [C0685]**
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  
**Qualification(s):** CME’s Winegard Medal nominee.

**Amount:** 1 Medal

---

**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 [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
<table>
<thead>
<tr>
<th>Scholarship Title</th>
<th>Award Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Arts Medal [C0383]</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Office of the Dean of Arts</td>
<td><strong>Qualification(s):</strong> Awarded to the graduating student with the highest cumulative average. <strong>Amount:</strong> 1 award of a Medal</td>
</tr>
<tr>
<td>College of Physical Engineering Science Academic Scholarship [I0073]</td>
<td>Application is not required.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> College of Physical and Engineering Science</td>
<td><strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 2 awards of $250</td>
</tr>
<tr>
<td>College of Physical Engineering Science Graduation Prize [C0075]</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><strong>Donor(s):</strong> College of Physical and Engineering Science</td>
<td><strong>Qualification(s):</strong> Student graduating with the highest cumulative average from an honours B.Sc. program in a Physical and Engineering Science area. <strong>Amount:</strong> 1 award of $250, 1 Commemorative plaque</td>
</tr>
<tr>
<td>College of Physical Engineering Science Scholarship [I0076]</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> College of Physical and Engineering Science</td>
<td><strong>Qualification(s):</strong> Recipients will be selected on the basis of a high average (minimum 80% average required) in courses normally taken in Year 3. <strong>Amount:</strong> 1 award of $250</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>
</tr>
<tr>
<td><strong>Donor(s):</strong> Collins Barrow Chartered Accountants</td>
<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. <strong>Amount:</strong> 1 award of $500</td>
</tr>
<tr>
<td>Consul General of Belgium Prize for French House [I0080]</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Consul General of Belgium in Toronto</td>
<td><strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 Book Prize</td>
</tr>
<tr>
<td>CSAHS Student Volunteer Scholarship [I0482]</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Harshman Fellowship Society and Pfizer Canada Inc.</td>
<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 average 70% average. <strong>Amount:</strong> 1 award of $450 plus an equal amount to the charitable organization of the recipient’s choice</td>
</tr>
<tr>
<td>CSS Alumni Heritage Scholarship [I0616]</td>
<td>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 the student with the highest cumulative program average. This scholarship may be held only once. Application is not required.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> CSS Alumni Heritage and the Dean of CSAHS</td>
<td><strong>Qualification(s):</strong> 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%. <strong>Amount:</strong> 2 awards of $1,000</td>
</tr>
<tr>
<td>D.C. Masters Prize in History [C0180]</td>
<td>Provided by the Department of History in the College of Arts to a student selected annually in the Spring semester from students who have completed their degrees in the previous twelve months. Application is not required.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Department of History</td>
<td><strong>Qualification(s):</strong> Student completing the honors program in History (specialized honors, combined honors, or major honors) with the highest cumulative average (minimum of 80%) in History courses at the 3000 and 4000 levels in the preceding academic year. <strong>Amount:</strong> 1 award of $500</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>
</tr>
<tr>
<td><strong>Donor(s):</strong> The Apiculture Club</td>
<td><strong>Qualification(s):</strong> College of Arts nominee for the Winegard Medal. <strong>Amount:</strong> 1 award of $350, 1 Medal</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 not required.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Board of Governors</td>
<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. <strong>Amount:</strong> 150 awards of $1,000</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>
</tr>
<tr>
<td><strong>Donor(s):</strong> The Innovative Farmers Association of Ontario</td>
<td><strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $1,000</td>
</tr>
<tr>
<td>Name of Scholarship</td>
<td>Amount</td>
</tr>
<tr>
<td>--------------------</td>
<td>--------</td>
</tr>
<tr>
<td>Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship</td>
<td>1 award of $1,350</td>
</tr>
<tr>
<td>Dr. R. J. Hilton Memorial Scholarship</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>E.B. MacNaughton Convocation Prize</td>
<td>1 award of $800</td>
</tr>
<tr>
<td>Edmund C. Bovey Scholarship in Philosophy</td>
<td>1 award of $250, 1 Plaque-mounted medal</td>
</tr>
<tr>
<td>Edward Johnson Music Foundation Scholarship</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>Elaine Scott-Thomas Track and Field Scholarship</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>Ellen Nilsen Memorial Scholarship</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>Embry Family Scholarship</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship</td>
<td>2 awards of $1,350</td>
</tr>
<tr>
<td>Essay Prize in Music</td>
<td>2 awards of $1,350</td>
</tr>
<tr>
<td>Essays in Theatre/Etudes Theatrales Scholarship</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Excellence in International Development Studies Prize</td>
<td>1 Book prize</td>
</tr>
<tr>
<td>E.A. Dahms Geography Alumni Scholarship</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Scholarship Name</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| 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 |
| 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(s) |
| Friends of Music Book Prize [I0218] | Established by the Friends of Music of the University of Guelph. Application is not required.  
**Donor(s):** Friends of Music, Chair, Department of Music  
**Qualification(s):** 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.  
**Amount:** 1 (or more) Book prize(s) |
| Friends of Music In-Course Scholarship [I0195] | Established by the Friends of Music of the University of Guelph. Application is not required.  
**Donor(s):** Friends of Music, Chair, Department of Music  
**Qualification(s):** 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.  
**Amount:** 1 award of $600 |
| Friends of Music In-Course Scholarship in Applied Music [I0497] | Established by the Friends of Music of the University of Guelph. Application is not required.  
**Donor(s):** Friends of Music, Chair, Department of Music  
**Qualification(s):** 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%.  
**Amount:** 1 award of $600 |
| Geography Alumni Semester 4 Scholarship [I0368] | Offered through the Alma Mater Fund by the Geography Alumni. Application is not required.  
**Donor(s):** The Department of Geography  
**Qualification(s):** 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.  
**Amount:** 1 award of $800 |
| Geography Alumni Semester 6 Scholarship [I0385] | Offered through the Alma Mater Fund by the Geography Alumni. Application is not required.  
**Donor(s):** Department of Geography  
**Qualification(s):** 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.  
**Amount:** 1 award of $800 |
| 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 |
| German Consulate Prize [C0110] | Presented in the Spring semester.  
**Donor(s):** Consulate General of the Federal Republic of Germany  
**Qualification(s):** Students who are graduating from an honours program in German Studies.  
**Amount:** 3 awards of Book prizes |
| Gloria Guthrie Memorial Music Prize [C0346] | Application is not required.  
**Donor(s):** Estate of Professor James R. Guthrie  
**Qualification(s):** Student graduating in honours Music who has obtained the highest average above 80% in Music courses.  
**Amount:** 1 award of $500 |
| Gold Medal in English [C0112] | This gold medal is offered by the faculty of the English Section of the School of Literatures and Performance Studies in English. Application is not required.  
**Donor(s):** Faculty of the Department of English  
**Qualification(s):** 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.  
**Amount:** 1 award of a Gold medal |
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 on-campus 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 who 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

Gordon Ashton Statistics Scholarship [I0543]

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.

**Donor(s):** Department of Mathematics and Statistics and (retired) Professor Dixon More, C.P.R.S.  
**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).

**Amount:** 1 award of $750

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 Creative Arts Association, Gordon Couling Scholarship [I0117]

Application for this scholarship is to be made by submitting a portfolio of studio work through the office of the School of Fine Art and Music no later than the final day of classes of the Winter semester.

**Donor(s):** Guelph Creative Arts Association  
**Qualification(s):** Studio arts major who has completed, or is completing, 12.50 credits at the time of application, who is proceeding towards an honours degree in Studio Arts, and who has a cumulative average of at least 70% in all previous course attempts in Art History and Studio Arts.

**Amount:** 1 award of $200

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 Development Studies Prizes [C0630]

Awarded annually to an outstanding student in each of the seven areas of emphasis in the International Development major. These prizes are 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 honours 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:** 7 Prizes

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. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University, two academic and/or professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students form. 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%, and is registered at the time of application.

**Amount:** 1 award of $1,000

Istituto Italiano di Cultura Prize [I0143]

Application is not required.

**Donor(s):** Consulate General of the Republic of Italy  
**Qualification(s):** Student intending to continue the study of Italian presently enrolled in ITAL*2070 or ITAL*1070 who obtains the highest standing in the course.

**Amount:** 1 of a book prize

J. Percy Smith Drama Prize [C0261]

Application is not required.

**Donor(s):** Dr. J. Percy Smith  
**Qualification(s):** Graduating honours student in Drama with high academic standing in Drama courses, who has also made a worthy contribution to drama activities within the School of English and Theatre Studies.

**Amount:** 1 award of $350

J.M. Bell Classics Scholarship [I0204]

Established in memory of Dr. John M. Bell, a distinguished teacher of classics and Chair of the Department of Languages and Literatures. Application is not required.

**Donor(s):** J.M. Bell Memorial Fund  
**Qualification(s):** Student continuing in an honours program in Classics with the highest average (80% or above) in 4.00 credits from Classical Studies, Greek, or Latin courses beyond the 1000 level. The award may only be held once.

**Amount:** 1 award of $500

Last Revision: March 15, 2014
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>J.W. Skinner Honours Scholarship in Social Science</td>
<td>$300</td>
<td>Awarded to the student with the highest academic standing. Application is not required.</td>
<td>Faculty, staff, alumni and students, of the former College of Social Science</td>
</tr>
<tr>
<td></td>
<td>$200</td>
<td></td>
<td>The friends of the late John A. Archibald</td>
</tr>
<tr>
<td></td>
<td>$750</td>
<td></td>
<td>The friends and associates of the late Dr. Joanna Boehnert</td>
</tr>
<tr>
<td></td>
<td>$900</td>
<td></td>
<td>The Department of Psychology with the assistance of Dr. Warren Jestin</td>
</tr>
<tr>
<td></td>
<td>$1,000</td>
<td></td>
<td>Mr. Robert N. Carter and Family</td>
</tr>
<tr>
<td>Jack and Lillian MacDonald Scholarship</td>
<td>$900</td>
<td>Entering students coming from the Six Nations Polytechnic (SNP).</td>
<td>Jack and Lillian MacDonald</td>
</tr>
<tr>
<td>Jack Madden Medal in Economic History</td>
<td>$200</td>
<td>Student in honour of Dr. Warren Jestin with the highest grade in the course and are graduating in the Winter semester or have graduated in the previous Fall or Summer.</td>
<td>The Department of Economics with the assistance of Dr. Warren Jestin</td>
</tr>
<tr>
<td>Jakob Amstutz Prize</td>
<td>$200</td>
<td>Student with the highest cumulative average who has graduated during the previous fall or winter or will be graduating in the summer of the current academic year from the Honours Philosophy program.</td>
<td>Guelph Philosophical Society</td>
</tr>
<tr>
<td>James L. Mottin Prize for Academic and Extracurricular Excellence</td>
<td>$200</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>
<td>The Department of Psychology</td>
</tr>
<tr>
<td>Jean Carter Memorial Gerontology Scholarship</td>
<td>$1,000</td>
<td>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 two letters of reference where one demonstrates volunteer experience with the elderly and the other demonstrates extracurricular activities.</td>
<td>Mr. Robert N. Carter and Family</td>
</tr>
<tr>
<td>Joanna Bartlett Boehnert Memorial Prize in Women’s Studies</td>
<td>$1,000</td>
<td>Graduating honours student majoring in Women’s Studies. The award will be presented to the student who has attained the highest cumulative specialization average.</td>
<td>Family, friends and colleagues of the late Dr. Joanna Boehnert</td>
</tr>
<tr>
<td>John A. Archibald Memorial Scholarship</td>
<td>$750</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>
<td>The friends and associates of the late John A. Archibald</td>
</tr>
<tr>
<td>John Burton Scholarship</td>
<td>$2,000</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 has 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.</td>
<td>Dr. John Burton</td>
</tr>
<tr>
<td>John Deere Foundation of Canada Scholarship</td>
<td>$2,000</td>
<td>Established through the generosity of The John Deere Foundation of Canada to recognize academic excellence. Application is not required.</td>
<td>The John Deere Foundation of Canada</td>
</tr>
<tr>
<td>John Eccles Scholarship</td>
<td>$600</td>
<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>
<td>Residence Life Staff and paid members of Interhall Council and Hall Councils are not eligible.</td>
</tr>
<tr>
<td>John F. Melby Honours Thesis Prize</td>
<td>$500</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>
<td>Members of the Department of Political Science, colleagues and friends</td>
</tr>
</tbody>
</table>
IX. Scholarships and Other Awards, Bachelor of Arts

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

John Vanderkamp Memorial Scholarship in Economics [10525]
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.

Donor(s): The family, friends and colleagues of John Vanderkamp
Qualification(s): Student registered in an Economics specialization in the B.A. program who has competed between 12.5 and 15.0 credits, and has declared his/her intention to proceed in the honours program. The award winner will be selected on the basis of high academic achievement, particularly in the applied Economics courses, and the award will be presented after the recipient has registered in a subsequent semester of an honours specialization in the B.A. in Economics.
Amount: 1 award of $500

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): 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. The award will be made on the basis of outstanding service as a Residence Life staff member, 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. Apply by October 31st to Student Housing Services, Associate Director, Residence Life and Family Housing and include a letter of reference and personal statement.

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. The award was 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

Latifpour-Keparoutis 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 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.
Amount: 1 award of $1,200

Le Prix Leopold Senghor [10254]
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 Book prize

Last Revision: March 15, 2014
2011-2012 Undergraduate Calendar
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

Lloyd Dorr Memorial Hockey Scholarship [I0708]
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

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*3300 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 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 (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

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 Scotchmer Scholarship [I0253]
Application is by submission of a portfolio and statement outlining future interest and plans for the future in the field to 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 Paramkas 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. Application is not required.

**Donor(s):** Jean Rich Foundation  
**Qualification(s):** Student in Year 3 (who has completed a minimum of 10.0 credits up to a maximum of 14.75 credits) of the Honours History program with the highest cumulative average.

**Amount:** 1 award of $600

### 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 enrolled 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

### 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

### 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.

**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 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

### Out-of-Province Women’s Middle Distance Running Scholarship [I0635]

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  
**Qualification(s):** In-course student-athlete who is a current member of the Women’s Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario.

**Amount:** 1 award of $1,500

### 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 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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Staff Association Scholarship</td>
<td>Professional Staff Association</td>
<td>Full-time students who are from the immediate family, part-time or contractual Professional/Managerial Group employees of the University of Guelph who have completed at least 5.0 credits and have a minimum 70% cumulative average.</td>
<td>1 award of $1,500</td>
<td>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.</td>
</tr>
<tr>
<td>R.A. Fisher Statistics Scholarship</td>
<td>Faculty, students and other affiliates of the Department of Mathematics and Statistics</td>
<td>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<em>2040 and STAT</em>2050 or equivalent. A student may be considered for this award only.</td>
<td>1 award of $500</td>
<td>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.</td>
</tr>
<tr>
<td>R.C. Moffatt Memorial Scholarship in Mathematics or Statistics</td>
<td>Estate of Professor R.C. Moffatt</td>
<td>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%.</td>
<td>1 award of $900</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. This award is not tenable with any other Department of Mathematics or Statistics scholarships. Application is not required.</td>
</tr>
</tbody>
</table>

**Psychology Scholarships and Other Awards**

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology Honors Thesis Prize</td>
<td>The Department of Psychology</td>
<td>Student enrolled in the B.A. honours program or the honors specialization in the B.Sc. program majoring in Psychology who has completed PSYC<em>2010 and PSYC</em>2360 and the Psychology core course requirements.</td>
<td>1 award of $200</td>
<td>Established by University Professor Emeritus Rex A. Barrell. Application is not required.</td>
</tr>
<tr>
<td>Psychology Senior Honours Scholarship</td>
<td>The Department of Psychology</td>
<td>Student enrolled in the BA Honours program or the honours specialization in the BSc program majoring 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<em>3371 and PSYC</em>3372.</td>
<td>1 award of $200</td>
<td>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.</td>
</tr>
<tr>
<td>Ruth and Eber Pollard Prize in Canadian History</td>
<td>The Guelph Historical Society</td>
<td>The award is for the best essay presented by a student in HIST<em>4470 or HIST</em>4970 in Canadian History, particularly its local dimension.</td>
<td>1 award of $1,000</td>
<td>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.</td>
</tr>
</tbody>
</table>
### scholarships and other awards, bachelor of arts

#### 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. Application is not required.

- **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:** 1 award of $1,000

#### 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.

#### Sociology & Anthropology Memorial Scholarship [I0632]
Established by the Department in memory of deceased faculty, staff and retirees. This tribute began in memory of Helen Constan, 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 [P0212]
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>Description</th>
</tr>
</thead>
</table>
| 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 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 |
**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 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 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 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 |
| 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 or honours 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.Chem 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 B.COM.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 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 [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

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]
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 once only.
**Amount:** 1 award of $750

Year 3 Statistics Scholarship [I0507]
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 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 15.0 credits) with demonstrated financial need and high academic achievement.
**Amount:** various award of up to $3,000

Alf and Mary Hales Undergraduate Scholarship in Political Science [I4511]
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
**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 OSOTF award (see General Statements on Awards).
**Amount:** 1 award of $1,000

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
**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 OSOTF award (see General Statements on Awards).
**Amount:** 1 award of $4,500
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beatrice Youngman Prize in Music [I4378]</td>
<td></td>
<td>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 OSOTF award (see General Statements on Awards).</td>
<td>1 award of $2,000</td>
</tr>
<tr>
<td>Brian Kenneth Howard Memorial Scholarship [I4548]</td>
<td>Kenneth and Irene Howard</td>
<td>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).</td>
<td>1 award of $2,700</td>
</tr>
<tr>
<td>C.P.E.S. Dean's Scholarship - ACCESS [I4527]</td>
<td>ameron &amp; Irene Howard</td>
<td>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).</td>
<td>1 award of $750</td>
</tr>
<tr>
<td>City of Guelph 175th Anniversary Scholarship [I0515]</td>
<td>The Guelph Community Foundation</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>1 award of $2,000</td>
</tr>
<tr>
<td>College of Arts Honours Scholarships [I4524]</td>
<td>Numerous Donors</td>
<td>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).</td>
<td>5 awards of $500</td>
</tr>
<tr>
<td>Earl B. MacNaughton C.P.E.S. ACCESS Scholarships [I4172]</td>
<td>Earl B. MacNaughton</td>
<td>A student who has resided in an on-campus residence during the first year of 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).</td>
<td>2 awards of $1,000</td>
</tr>
<tr>
<td>Eleanor Morgan &amp; Bill Archibald Scholarships [I4540]</td>
<td>The Family of Eleanor &amp; Bill Archibald</td>
<td>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).</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Erinn Demers Memorial Scholarship [I0406]</td>
<td>The Family and Friends of Erin Demers</td>
<td>A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This award is payable in the second year (i.e. completed 5.0 course credits) of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.</td>
<td>1 award of $2,000</td>
</tr>
<tr>
<td>Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [I4546]</td>
<td>Ernest Kendall</td>
<td>A student 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).</td>
<td>2 awards of $1,350</td>
</tr>
<tr>
<td>Euclid-Hitachi Scholarships [I4517]</td>
<td>Euclid-Hitachi of Canada Ltd.</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>
</tr>
</tbody>
</table>
### 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  
**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  
**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  
**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 $5,000

### 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.

**Donor(s):** The Guelph Philosophical Society  
**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

### 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  
**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 OSOTF award (see General Statements on Awards).

**Amount:** 2 awards of $3,500

### Lin Coburn Memorial Scholarship [I4539]

Provided with the assistance of the Ontario government's OSOTF program, this scholarship is available 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 completed 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  
**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

### 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 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):** F. Michael Walsh, BA ’69, MA ’70, PhD ’93 and D. Virginia (Trimble) Walsh, BA ’72  
**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. ACCESS AWARD.

**Donor(s):** Jane and George Spence  
**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 OSOTF 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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [10547]</td>
<td>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.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Qualification(s):</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. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>Sheryl and David Kerr</td>
</tr>
</tbody>
</table>

| 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 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 [10696]               | 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                                                            |

| Scottish Studies Foundation Scholarship [14541]               | Provided with the assistance of the Ontario government’s OSOTF 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                               |
| Qualification(s):                                           | Students who have completed a minimum 10.0 credits and have 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 OSOTF award (see General Statements on Awards). |
| Amount:                                                      | 1 award of $4,000                                                          |

| Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [14515] | 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. |
| Amount:                                                      | various awards of up to $3,500                                               |
| 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 a OTSS award (see General Statements on Awards). |
| Donor(s):                                                    | Sheryl and David Kerr                                                         |

| Sheryl and David Kerr Scholarship [14515]                     | 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. |
| Amount:                                                      | 1 award of $1,000                                                            |
| 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. |
| Donor(s):                                                    | University of Guelph Retirees Association (U.G.R.A.)                        |

| Studio Arts Specialized Studio Practice Scholarship [14522]   | 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 (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. Eligible students will then be invited to submit a portfolio to the School of Fine Art and Music. This award may be held only once. Selection will be based on the student's portfolio. ACCESS AWARD. |
| Donor(s):                                                    | Numerous Donors                                                              |
| Qualification(s):                                           | Students 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                                                              |

| 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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services. |
| Donor(s):                                                    | The Giuliani Family                                                          |
| Qualification(s):                                           | Most academically promising applicant with a demonstrated disability and having financial need. |
| Amount:                                                      | 1 award of $880                                                              |

| Tony and Anne Arrell Scholarships [10686]                     | 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 $5,00                                                           |

| 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, 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
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 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

Wilson Woodside Memorial Scholarship [I4536]
Established in memory of Wilson 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 woodland management. ACCESS AWARD

Donor(s): Department of Political Science
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

Yeandle Family Scholarships [I3546]
Provided by the Estate of Audrey Yeandle, a Mac25 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
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

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

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.
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
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
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)
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
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: 2 awards of $500

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.(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
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
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 [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

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
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 up to $2000

George and Margaret J. Miles Memorial Bursary [I3544]
Established by the family to honour the memory of the parents, George and Margaret J. Miles, lifelong supporters of education. Apply with a completed Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD
Donor(s): Established by the Miles Family
Qualification(s): All undergraduate arts and 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.
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/RHPPA. 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 or 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
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 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 [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
IX. Scholarships and Other Awards, Bachelor of Arts

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Howard and Myrtle Rogers Bursaries [I3537]</strong></td>
<td>The Estate of Howard and Myrtle Rogers</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>
<td>10 up to $2,000</td>
</tr>
<tr>
<td><strong>International Emergency Medical Aid Assistance [I3059]</strong></td>
<td>University of Guelph</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>
<td>Several awards of varying amounts</td>
</tr>
<tr>
<td><strong>International Student Bursaries [I3009]</strong></td>
<td>Mrs. Norma L. Valeriote</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>
<td>Several of varying amounts</td>
</tr>
<tr>
<td><strong>Irvine and Grace Black Memorial Bursary [I3051]</strong></td>
<td>Family and friends of Irvine and Grace Black</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 by October 7.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>Joan Weatherly Memorial Bursary [I3065]</strong></td>
<td>The Estate of Joan Weatherly</td>
<td>Students registered in any degree program in the departments of Geography, Political Science, Psychology and Sociology &amp; Anthropology with demonstrated financial need.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>John &amp; Margaret Van Loon Family Bursary in Science [I3549]</strong></td>
<td>Mr. Paul Van Loon and Mrs. Lauralene Van Loon</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 OTSS award (see General Statements on Awards).</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Marie Hardacre Bursary [I3548]</strong></td>
<td>Mrs. A. Marie Hardacre</td>
<td>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 OSOTF award (see General Statements on Awards).</td>
<td>1 award of $4,500</td>
</tr>
<tr>
<td><strong>Mary I. Whitelock Bursaries [I3524]</strong></td>
<td>Estate of Mary I. Whitelock</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>13 awards of $2,000</td>
</tr>
<tr>
<td><strong>O.A.C. ’38 Lloyd Minshall Bursaries [I3529]</strong></td>
<td>O.A.C. ’38 Alumni</td>
<td>O.A.C. undergraduate students with demonstrated financial need. Students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>4 awards of $1,800</td>
</tr>
<tr>
<td><strong>O.A.C. ’55 Access Bursaries [I3517]</strong></td>
<td>O.A.C. Class of ’55</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 Statements on Awards).</td>
<td>6 awards of $300</td>
</tr>
<tr>
<td><strong>O.A.C. ’57 Bursaries [I3518]</strong></td>
<td>O.A.C. ’57 and the O.A.C. Alumni Foundation</td>
<td>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).</td>
<td>5 awards of $1,000</td>
</tr>
</tbody>
</table>
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

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

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

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

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

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

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

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

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 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
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 totalling $7500.

Donor(s): Canadian Friends of the Hebrew University in Jerusalem
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 Alford, Kemptville or Ridge town 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
### 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

### 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

### 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 student 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 Miyanishi International Travel Grant [T0742]

Established by Dr. Kiyoko Miyanishi, 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/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. The letter should be accompanied by a budget outlining travel expenses and other revenue sources.

**Donor(s):** Dr. Kiyoko Miyanishi 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 pursuing 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 [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. 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 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

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 (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

Ontario International Education Opportunity Scholarship (OIEOS) [T0614]

On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

Donor(s): Government of Ontario

Qualification(s): Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.

Amount: approximately 71 awards of $2,500

OURA Innovation Travel Grant [T4393]

Established in recognition of an innovative student fee program 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)

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

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 associate 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]

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/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 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

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)

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. 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. 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): Rudy Florio
Qualification(s): Entering student-athlete who is a member of the varsity swim team and excel both academically and in a rigorous athletic environment.
Amount: 1 award of $3,500

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 Chancellor's 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
IX. Scholarships and Other Awards, Bachelor of Arts and Science

**Football Endowment Fund (EF) 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 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):** Jack and Lillian MacDonald

**Qualification(s):** Entering students coming 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.S. 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 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 Athletics 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 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]
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): Wilhelmmina 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

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

Out-of-Province Women’s Middle Distance Running Scholarship [E0635]
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
Qualification(s): Entering student-athlete who is a member of the Women’s Middle Distance team, who has achieved a minimum 80% admission average and whose permanent residence is outside of Ontario
Amount: 1 award of $1,500

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
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 in recognition of his financial contribution through his estate 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 85.0% admission average.

Amount: 1 award of $3,500 each

Professor Victor Matthews Track and Field Scholarships [E0707]

The recipient will be selected based on demonstrated leadership qualities and contributions to the track and field 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 $3,500 each

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

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. Application is not 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 held 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): 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 $570 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

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 Halima Slabkowski Scholarship [E0748]

This scholarship was established in memory of Walter and Halima Slabkowski 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 Slabkowski 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 [E0763]

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
**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 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 2016, 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  
**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 extracurricular 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  
**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

---

**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  
**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.) application. This award is not tenable with the President’s Scholarship or Lincoln Alexander Chancellor’s 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  
**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  
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  
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  
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. 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 $1,700

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  
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. 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. 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</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bill Taylor Memorial Scholarship [10280]</strong></td>
<td>Award</td>
<td>Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> AMF Canada Ltd.</td>
<td><strong>Qualification(s):</strong> 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><strong>Amount:</strong> 1 award of $900</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bob &amp; Joyce Brooks Football Scholarships [10691]</strong></td>
<td>Award</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><strong>Donor(s):</strong> Mrs. Joyce Brooks</td>
<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>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> Numerous awards ranging in value from $750 to $3,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CBS Student Council Academic Achievement Scholarship [10744]</strong></td>
<td>Award</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> CBS Student Council</td>
<td><strong>Qualification(s):</strong> 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%.</td>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $2,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CBS Student Council Extracurricular Achievement Scholarship [10745]</strong></td>
<td>Award</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> CBS Student Council</td>
<td><strong>Qualification(s):</strong> 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%.</td>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $2,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CFRU Volunteer Award [10215]</strong></td>
<td>Award</td>
<td>Apply to the CFRU Board of Governors by April 30.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Station Manager, CFRU</td>
<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>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 2 awards of $250</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Class of 1970 Scholarship [10424]</strong></td>
<td>Award</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><strong>Donor(s):</strong> Class 1970: 25th Reunion Gift</td>
<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>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,400</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Coach Rudy Florio Football Scholarship [10737]</strong></td>
<td>Award</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><strong>Donor(s):</strong> Mr. Rudy Florio</td>
<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>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $3,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Collins Barrow Award [10040]</strong></td>
<td>Award</td>
<td>Offered by Collins Barrow, a national firm of Chartered Accountants. Application is not required.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Collins Barrow Chartered Accountants</td>
<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>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $500</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>David F. Boyes Apiculture Scholarship [10031]</strong></td>
<td>Award</td>
<td>Established in memory of David Boyes a technician in the Apiculture Field Laboratory. Application is not required.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> The Apiculture Club</td>
<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>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $150</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Deans’ Scholarships [10323]</strong></td>
<td>Award</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><strong>Donor(s):</strong> Board of Governors</td>
<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>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 150 awards of $1,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [10695]</strong></td>
<td>Award</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>
</tr>
<tr>
<td><strong>Donor(s):</strong> Various Donors</td>
<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>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,350</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Edward Johnson Music Foundation Scholarship [10608]</strong></td>
<td>Award</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Edward Johnson Music Foundation</td>
<td><strong>Qualification(s):</strong> 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.</td>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $500</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Elaine Scott-Thomas Track and Field Scholarship [10706]</strong></td>
<td>Award</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>
</tr>
<tr>
<td><strong>Donor(s):</strong> Dave Scott-Thomas CBS BSc ’88</td>
<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>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scholarship Name</td>
<td>Donor(s)</td>
<td>Qualification(s)</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>---------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Embry Family Scholarship</strong> [10736]</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>
</tr>
<tr>
<td><strong>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship</strong> [10627]</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>
</tr>
<tr>
<td><strong>Football Endowment Fund (FEF) Scholarship</strong> [10644]</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>
</tr>
<tr>
<td><strong>George A. Gray O.A.C. ’51 Varsity Scholarships</strong> [10487]</td>
<td>Mrs. George A. Gray</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>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews</strong> [10677]</td>
<td>George Ames</td>
<td>In-course student-athlete who is a current member of the Varsity Country team and has achieved a minimum 70% average in the previous academic year.</td>
</tr>
<tr>
<td><strong>Gerd and Christel Baldauf Men’s Basketball Scholarship</strong> [10639]</td>
<td>Dr. Christian Baldauf</td>
<td>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>
</tr>
<tr>
<td><strong>Governor General’s Medal</strong> [C0044]</td>
<td>The Chancellery</td>
<td>Recipients will be selected based on demonstrated leadership qualities. Coaches will nominate the students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td><strong>Gryphon Athletic Scholarships</strong> [10631]</td>
<td>University of Guelph</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>Hung-So Chow Yuen Leadership Scholarship</strong> [14400]</td>
<td>John and Agnes Yuen</td>
<td>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.</td>
</tr>
<tr>
<td><strong>International Undergraduate Scholarship</strong> [10577]</td>
<td>International Student Organization (ISO)</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%, and is registered at the time of application.</td>
</tr>
<tr>
<td><strong>J.W. Skinner Medal in Social Science</strong> [C0260]</td>
<td>Faculty, staff, alumni and students, of the former College of Social Science</td>
<td>Presented to the C.S. A.H.S. Winegard Medal nominee.</td>
</tr>
<tr>
<td><strong>Jack and Lillian MacDonald Scholarship</strong> [E0379]</td>
<td>Jack and Lillian MacDonald</td>
<td>Entering student coming from the Six Nations Polytechnic (SNP).</td>
</tr>
<tr>
<td><strong>John Eccles Scholarship</strong> [10093]</td>
<td>Student Housing Services</td>
<td>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.</td>
</tr>
<tr>
<td>Scholarship Name</td>
<td>Qualification(s)</td>
<td>Amount</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td><strong>Kelly Bertrand Cross Country Scholarship [I0684]</strong></td>
<td>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.</td>
<td>1 award of $2,000</td>
</tr>
<tr>
<td><strong>Kenneth W. Hammond Prize [I0045]</strong></td>
<td>Student who has best demonstrated an understanding of the world's resource situation and its proper use by humankind.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Kevin Durie Memorial Scholarship [I0653]</strong></td>
<td>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.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Kip Hunter Prize [I0139]</strong></td>
<td>Any undergraduate who has registered for a philosophy course during the academic year in which the prize is awarded.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Lambda Foundation Scholarship in LBGT Studies [I0591]</strong></td>
<td>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.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Larry Pearson Men's Volleyball Athletic Scholarships [I0618]</strong></td>
<td>Current member of the men's varsity volleyball team and has achieved a minimum 70% average in the previous academic year.</td>
<td>several awards up to $3,500</td>
</tr>
<tr>
<td><strong>Latifpoor-Keparoutis Family Varsity SwimTeam Scholarship [I0732]</strong></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>1 award of $1,200</td>
</tr>
<tr>
<td><strong>Leonard Connolly Exchange Student Scholarship [I0446]</strong></td>
<td>Students, staff, faculty and friends of Dr. Leonard Connolly</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Lloyd Dorr Memorial Hockey Scholarship [I0708]</strong></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>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Marion McKenzie Scholarships for Outstanding Achievement in History [I0470]</strong></td>
<td>The recipient for HIST<em>1010 must have completed no more than 5.0 credits; the recipient for HIST</em>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.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Men's Basketball Scholarships [I0638]</strong></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>4 awards of $2,500</td>
</tr>
</tbody>
</table>
### IX. Scholarships and Other Awards, Bachelor of Arts and Science

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Out-of-Province Women's Middle Distance Running Scholarship [I0635]</strong></td>
<td>1 award of $1,500</td>
<td>In-course student-athlete who is a current member of the Women's Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario.</td>
<td>Anonymous</td>
</tr>
<tr>
<td><strong>Priscilla and Stanford Reid Trust Prize [I0597]</strong></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><strong>Professional Staff Association Scholarship [I0628]</strong></td>
<td>1 award of $1,500</td>
<td>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>
<td>Professional Staff Association</td>
</tr>
<tr>
<td><strong>Professor Victor Matthews Track and Field Scholarships [I0707]</strong></td>
<td>1 award of $1,500</td>
<td>Current members 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>Various Donors</td>
</tr>
<tr>
<td><strong>Russell Athletic Scholarships [I0722]</strong></td>
<td>4 awards of $2,500 each</td>
<td>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.</td>
<td>H.D. Brown Enterprises Ltd.</td>
</tr>
<tr>
<td><strong>Sprung Family Men's Basketball Scholarship [I0672]</strong></td>
<td>1 award of $3,500</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>
<td>Mr. Timothy Sprung</td>
</tr>
<tr>
<td><strong>Stephanie Wilken Volunteer Scholarship [I0449]</strong></td>
<td>1 award of $1,000</td>
<td>Student registered in any undergraduate degree program, who has been a volunteer for at least two semesters at the Wellness Centre.</td>
<td>Priscilla and Stanford Reid Trust Fund</td>
</tr>
<tr>
<td><strong>Tatjana Schulz Vanegas Memorial Scholarship [I0746]</strong></td>
<td>1 award of $1,000</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>Family and Friends of Tatjana Schulz</td>
</tr>
<tr>
<td><strong>Thomas H. Peters Scholarship [I0233]</strong></td>
<td>1 award of $250</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>Friends and associates of Thomas H. Peters</td>
</tr>
<tr>
<td><strong>Tom Mooney Scholarship [I0709]</strong></td>
<td>1 award of $2,500 each</td>
<td>Numerous awards ranging in value from $1,000 to $3,500.</td>
<td>Various Donors</td>
</tr>
<tr>
<td><strong>Toronto District Beekeeper’s Association Scholarship [I0285]</strong></td>
<td>1 award of $500</td>
<td>Student with good academic standing, have participated in extracurricular activities, and demonstrated a keen interest in beekeeping.</td>
<td>Mr. Jack Robinson</td>
</tr>
<tr>
<td><strong>United Steelworkers Local 4120 Scholarship [I0293]</strong></td>
<td>1 award of $1,000</td>
<td>A recipient of the Winter semester with a minimum 70% cumulative average.</td>
<td>United Steelworkers LU 4120</td>
</tr>
</tbody>
</table>

### Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
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/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 alumnus/us of the University of Guelph or its founding colleges.

Amount: 1 award of $1,000

Van Stralen and Van Der Hoven 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 Hoven & 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 [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 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 [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 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

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 $3,000

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

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

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, a 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, 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 May 15 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): A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This award is payable in the second year (i.e. completed 5.0 course credits) of study. Preference will be given to students who have demonstrated financial need and who have participated significantly in extracurricular activities.
Amount: 1 award of $2,000

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
Qualification(s): Students with demonstrated financial need who are members of the 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: 2 awards of $1,350

Euclid-Hitachi Scholarships [14517]
Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government's OTSS 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.
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
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 $5,000

John Embry Family Scholarship [14449]
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
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

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

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
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 [14515]
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

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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services.

Donor(s): The Giuliani Family
Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need.
Amount: 1 award of $880
IX. Scholarships and Other Awards, Bachelor of Arts and Science

Tony and Anne Arrell Scholarships [10686]

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, grand child or great grand child.

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

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 [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 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 [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

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.

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

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

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

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 up to $2000

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.

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
<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>Guelph Compassionate Health and Dental Bursary</td>
<td>1 award of $500</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>
<td>Student Health and Dental Plan Reserve</td>
<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 statementdetailing 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>Guelph Student Assistance ACCESS Bursaries</td>
<td>Several awards of varying amounts up to $1,000</td>
<td>Full-time 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>
<td>Central Student Association</td>
<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.</td>
</tr>
<tr>
<td>Guelph Student Assistance Program</td>
<td>Several awards of varying amounts up to $1,000</td>
<td>Full-time undergraduate 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>
<td>Undergraduate Students</td>
<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>Helen Mahon Memorial Bursary</td>
<td>1 award of $500</td>
<td>Students registered in any program who come from a family where one parent is deceased.</td>
<td>Family and Friends of Helen Mahon</td>
<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>Howard and Myrtle Rogers Bursaries</td>
<td>10 up to $2,000</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 OTSS award (see General Statements on Awards).</td>
<td>The Estate of Howard and Myrtle Rogers</td>
<td>Provided by the Estate of Howard and Myrtle Rogers, with the assistance of the Ontario government's OTSS 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>International Emergency Medical Aid Assistance</td>
<td>Several awards of varying amounts up to $1,000</td>
<td>Students currently registered at the University of Guelph with a minimum registration of 1.50 course credits.</td>
<td>University of Guelph</td>
<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>International Student Bursaries</td>
<td>Several awards of varying amounts up to $1,000</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>
<td>Mrs. Norma L. Valeriote</td>
<td>Established in memory of Mrs. Norma L. Valeriote who 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>Irvine and Grace Black Memorial Bursary</td>
<td>1 award of $500</td>
<td>Students 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>
<td>Family and friends of Irvine and Grace Black</td>
<td>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.</td>
</tr>
<tr>
<td>Mary I. Whitelock Bursaries</td>
<td>13 awards of $2,000</td>
<td>Students with demonstrated financial need. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
<td>Estate of Mary I. Whitelock</td>
<td>Established by the estate of Mary I. Whitelock, a friend of the University, with the assistance of the Ontario government’s OTSS 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.</td>
</tr>
<tr>
<td>Ontario Co-operatives R.P. Forshaw Bursary</td>
<td>1 award of $400</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>
<td>The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forshaw</td>
<td>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.</td>
</tr>
<tr>
<td>Robert Auger Humanitarian Bursary</td>
<td>Several grocery vouchers or book vouchers</td>
<td>Students registered in a degree program.</td>
<td>Office of Registrarial Services</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>
</tr>
</tbody>
</table>
Scotiabank Bursaries [13532]
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
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

University of Guelph Access Bursaries [13522]
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
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 [13523]
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
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 [13053]
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 [13048]
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) [13037]
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) [13047]
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 [13019]
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 [13057]
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
### IX. Scholarships and Other Awards, Bachelor of Arts and Science

#### Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]

The Canadian Friends of the Hebrew University in Jerusalem, with the assistance of the Ontario government's OSO TF 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 |
| 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 OSOTE award (see General Statements on Awards). |
| Amount: | A number of awards to a maximum of $7,500 |

#### Ontario International Education Opportunity Scholarship (OIEOS) [T0614]

On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

| Donor(s): | Government of Ontario |
| Qualification(s): | Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need. |
| Amount: | approximately 71 awards of $2,500 |

#### 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) |
| 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 OTSSS 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 OSO TF program, 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 |

#### 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

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. 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

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 [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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
<th>Donations Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elaine Scott-Thomas Track and Field Scholarship</td>
<td>1 award of $1,500</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>
<td>University of Guelph</td>
</tr>
<tr>
<td>Embry Family Scholarship</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>
<td>University of Guelph</td>
</tr>
<tr>
<td>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship</td>
<td>2 awards of $1,350</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>Ernest Kendall</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>Ernie Kendall Science Entrance Scholarship</td>
<td>2 awards of $2,000</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>University of Guelph</td>
</tr>
<tr>
<td>Football Endowment Fund (FEF) Scholarship</td>
<td>variable amounts</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>
<td>University of Guelph</td>
</tr>
<tr>
<td>George A. Gray O.A.C. ’51 Varsity Scholarships</td>
<td>variable amounts</td>
<td>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>
<td>University of Guelph</td>
</tr>
<tr>
<td>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews</td>
<td>1 award of $3,500</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>University of Guelph</td>
</tr>
<tr>
<td>Gerd and Christel Baldauf Men’s Basketball Scholarship</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>Dr. Christian Baldauf</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>Gordon W. Innes Scholarship</td>
<td>1 award of $1,400</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>University of Guelph</td>
</tr>
<tr>
<td>Gryphon Athletic Scholarships</td>
<td>variable amounts</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>
<td>University of Guelph</td>
</tr>
<tr>
<td>Hardy International Student Scholarship</td>
<td>1 award of $3,000</td>
<td>Full-time international students (defined as paying the international student tuition and fees) entering any degree program.</td>
<td>Mrs. Marion Hardy</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>International Student Entrance Scholarships</td>
<td>variable amounts</td>
<td>Students entering any degree program at the University of Guelph.</td>
<td>Various University of Guelph donors</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>J.D. MacLachlan Scholarship</td>
<td>1 award of $1,500</td>
<td>Student entering any degree program at the University of Guelph.</td>
<td>The J.D. MacLachlan Trust</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>Jack and Lillian MacDonald Scholarship</td>
<td>1 award of $900</td>
<td>Students entering any degree program from Six Nations Polytechnic (SNP).</td>
<td>Jack and Lillian MacDonald</td>
<td>University of Guelph</td>
</tr>
</tbody>
</table>
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

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, 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 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 student from one of the seven First Nations communities. Students must have completed the 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 outlining career aspirations, extracurricular and community involvement in agri-food related activities.
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]
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 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): 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

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 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 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 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

Out-of-Province Women’s Middle Distance Running Scholarship [E0635]
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
Qualification(s): Entering student-athlete who is a member of the Women’s Middle Distance Team, who has achieved a minimum 80% admission average and whose permanent residence is outside of Ontario.
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, 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

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.

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 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 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
<table>
<thead>
<tr>
<th>Scholarship Title</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sprung Family Men’s Basketball Scholarship</td>
<td>E0672</td>
</tr>
<tr>
<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.</td>
<td></td>
</tr>
<tr>
<td>Donor(s):</td>
<td>Mr. Timothy Sprung</td>
</tr>
<tr>
<td>Qualification(s):</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>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $3,500</td>
</tr>
</tbody>
</table>

| 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 2011-2012 academic year. |
| 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 |

| 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 | E0748 |
| 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 |

| 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. 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 |

| 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 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.) 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
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 Emby Family Scholarship [E4549]

Established by John Emby, a former varsity athlete, and created with matching funding through the Ontario Trust for Student Support program, these endowed scholarships 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 Emby
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

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
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 Chancellor’s 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 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 1949 and B.S.A. 1951. Selection will be based on academic standing, participation in extra-curricular activities and involvement in primary production 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
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
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. 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  
**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

---

**William Guy Walton Scholarship [E0671]**
As Mr. Walton owned a family farm where the Scarborough Town Centre now sits, he wanted to help young people from that area and encourage support for agriculture. Selection will be based on academic achievement, demonstrated leadership ability and involvement in the community. Financial need may also be considered. Apply by April 15 to Student Financial Services with a letter, not more than two pages, outlining demonstrated leadership, volunteer service in the community along with a completed Financial Need Assessment Form for Entrance Awards.

**Donor(s):** Estate of William Guy Walton  
**Qualification(s):** Students from any Scarborough, Ontario high school entering any program offered by O.A.C.

**Amount:** 1 award of $5,000

---

**Entrance Bursaries**

**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
**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 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 $1,700

---

**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 with a minimum registration of 1.5 credits and 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. These 5 bursaries will be offered to the students with the greatest demonstration of 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 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**

**Al 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

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

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

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 $1,400

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):** Students 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 [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

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 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 $800
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Qualification(s)</th>
<th>Amount</th>
<th>Donor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Elaine Scott-Thomas Track and Field Scholarship [10706]</strong></td>
<td>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>
<td>1 award of $1,500</td>
<td>Dave Scott-Thomas CBS BSc ’88</td>
<td>�� for students registered in the BSc. program who are graduating in June, or who have graduated in the previous two convocations, with the highest cumulative average.</td>
</tr>
<tr>
<td><strong>Embry Family Scholarship [10736]</strong></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>
<td>John Embry</td>
<td>Established by John Embry, a former varsity athlete. Selection will be based on demonstrated leadership qualities and contributions to the team. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td><strong>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [10627]</strong></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>
<td>Ernest Kendall</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>
</tr>
<tr>
<td><strong>Football Endowment Fund (EFF) Scholarship [10644]</strong></td>
<td>Current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year.</td>
<td>2 awards of $1,250</td>
<td>Various University of Guelph donors</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>
</tr>
<tr>
<td><strong>George A. Gray O.A.C. ’51 Varsity Scholarships [10487]</strong></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>
<td>Mrs. George A. Gray</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>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [10677]</strong></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>2 awards of $1,250</td>
<td>George Ames</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>
</tr>
<tr>
<td><strong>Gerd and Christel Baldauf Men’s Basketball Scholarship [10639]</strong></td>
<td>Current member of the Men’s Basketball varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>1 award of $3,500</td>
<td>Dr. Christian Baldauf</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>
</tr>
<tr>
<td><strong>Gryphon Athletic Scholarships [10631]</strong></td>
<td>Current member of a varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>various awards of $750 to $3,500</td>
<td>University of Guelph</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. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University, two academic and/or professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students form. This award can only be held once by the student.</td>
</tr>
<tr>
<td><strong>International Undergraduate Scholarship [10577]</strong></td>
<td>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>
<td>1 award of $1,000</td>
<td>Jack and Lillian MacDonald</td>
<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 Polytechnic Institute) who has the highest cumulative average at the University.</td>
</tr>
<tr>
<td><strong>Joerg and Franzis Leiss Horticultural Scholarship [10565]</strong></td>
<td>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>
<td>1 award of $900</td>
<td>Mr. Joerg Leiss, O.A.C. ’63</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>
</tr>
<tr>
<td><strong>John Burton Scholarship [10642]</strong></td>
<td>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>
<td>1 award of $1,500</td>
<td>Dr. John Burton</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>
</tr>
</tbody>
</table>

**Governor General’s Medal [C0044]**

Established by the Office of the Governor General of Canada. Application is not required.
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. The award will be made on the basis of outstanding service as a Residence Life staff member, 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. Apply by October 31 to Student Housing Services, Associate Director, Residence Life and Family Housing and include a letter of reference and personal statement.

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

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 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 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.

Amount: 1 award of $1,200

Lloyd Dor Memorial Hockey Scholarship [10708]

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 Dor
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 [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

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
Out-of-Province Women's Middle Distance Running Scholarship [I0635]

Recipient 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
**Qualification(s):** In-course student-athlete who is a current member of the Women's Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario.
**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 with a letter including 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 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 Athletics 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

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 Athletics 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):** 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

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):** Recipient is a 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]

Apply to Student Financial Services by January 31 and provide the name of the USWA contract Professional/Managerial Group employees 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):** United Steelworkers LU4120
**Qualification(s):** Student registered in any undergraduate degree program in the area of crops and land reclamation.
**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 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

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 [I0299]
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 $3,000

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
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, 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 May 15 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): A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This award is payable in the second year (ie. completed 5.0 course credits) of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.
Amount: 1 award of $2,000

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
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: 2 awards of $1,350
IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree

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.

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

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 $5,000

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

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

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 demonstrated academic achievement and demonstrated financial need. 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. Selection will be made on the basis of demonstrated financial need and strong community involvement both inside and outside of residence. Students must remain 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):
Sheryl and David Kerr

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:
3 awards of $500

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. 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. 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):
Sheryl and David Kerr

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

R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [I0547]

Established by R. Douglas and Kathleen Kennedy 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 demonstrated leadership qualities, contributions to the team and demonstrated financial need. Students apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS AWARD

Donor(s):
R. Douglas and Kathleen Kennedy

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

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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services.

Donor(s):
The Giuliani Family

Qualification(s):
Most academically promising applicant with a demonstrated disability and having financial need.

Amount:
1 award of $880

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. Students 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

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. Students 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

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 in 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
<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><strong>Tony and Anne Arrell Scholarships [I0086]</strong></td>
<td>20 awards of $5,000</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>Tony Arrell, OAC Bsc (Agr) ’67 and Anne Arrell, MAC BHSC ’68</td>
<td>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.</td>
</tr>
<tr>
<td><strong>University of Guelph Retiree Association Degree Scholarship [I0569]</strong></td>
<td>1 award of $1,500</td>
<td>Students that have completed 4.0 credits but no more than 6.0 credits 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.</td>
<td>University of Guelph Retirees Association (U.G.R.A.)</td>
<td>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.</td>
</tr>
<tr>
<td><strong>W. F. Mitchell Athletic Scholarship [I4550]</strong></td>
<td>2 awards of $1,500</td>
<td>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 OSOTF award (see General Statements on Awards).</td>
<td>The Mitchell Family</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 must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD</td>
</tr>
<tr>
<td><strong>William &amp; Nona Heaslip Scholarship [I0589]</strong></td>
<td>3 awards to a maximum of $1,500</td>
<td>Students who 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.</td>
<td>The William and Nona Heaslip Foundation</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 study. 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>Bette Stephenson Accessibility Bursary [I3054]</strong></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>
<td>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.</td>
</tr>
<tr>
<td><strong>Brinson Partners Inc. Bursaries [I3526]</strong></td>
<td>2 awards of $1,500</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>
<td>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.</td>
</tr>
<tr>
<td><strong>Burnbrae Farms Bursaries [I3525]</strong></td>
<td>2 awards of $1,500</td>
<td>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).</td>
<td>Burnbrae Farms</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Class of '72: 25th Reunion Bursaries [I3512]</strong></td>
<td>2 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</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>
</tr>
<tr>
<td><strong>Class of O.A.C. ’33 Bursaries [I3531]</strong></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 O.A.C. ’33</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Class of O.A.C. ’36 Bursaries [I3501]</strong></td>
<td>2 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>
<td>Class of O.A.C. ’36</td>
<td>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.</td>
</tr>
<tr>
<td><strong>David R. Leach Memorial Bursary [I3534]</strong></td>
<td>2 awards of $500</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>Mrs Deborah Leach-Sartor</td>
<td>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.</td>
</tr>
</tbody>
</table>

*Last Revision: March 15, 2014*
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
**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 up to $2000

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 Counsel Inc.
**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
**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

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
**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 who 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

Irvin 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
### IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree

<table>
<thead>
<tr>
<th>Award Name</th>
<th>Description</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mary I. Whitelock Bursaries [I3524]</strong></td>
<td>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.</td>
<td>13 awards of $2,000</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>Estate of Mary I. Whitelock</td>
</tr>
<tr>
<td><strong>O.A.C. '38 Lloyd Minshall Bursaries [I3529]</strong></td>
<td>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.</td>
<td>4 awards of $1,800</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 Statements on Awards).</td>
<td>O.A.C. '38 Alumni</td>
</tr>
<tr>
<td><strong>O.A.C. '55 Access Bursaries [I3517]</strong></td>
<td>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.</td>
<td>6 awards of $500</td>
<td>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. with demonstrated financial need.</td>
<td>O.A.C. Class of '55</td>
</tr>
<tr>
<td><strong>Ontario Grape Growers Bursary [I3033]</strong></td>
<td>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. ACCESS AWARD.</td>
<td>Several of various amounts</td>
<td>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. with demonstrated financial need.</td>
<td>The Ontario Grape Growers Action Committee</td>
</tr>
<tr>
<td><strong>O.A.C. Alumni Foundation Access Bursaries [I3533]</strong></td>
<td>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.</td>
<td>5 awards of $1,000</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>
<td>O.A.C. Alumni Foundation</td>
</tr>
<tr>
<td><strong>Ontario Co-operatives R.P. Forswah Bursary [I3013]</strong></td>
<td>The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forswah 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.</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>
<td>The Co-operatives, Credit Unions, friends and associates of Prof. R.P. Forswah</td>
</tr>
<tr>
<td><strong>Robert Auger Humanitarian Bursary [I3058]</strong></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 of various amounts</td>
<td>Several grocery vouchers or book vouchers</td>
<td>Office of Registrarial Services</td>
</tr>
<tr>
<td><strong>Scotiabank Bursaries [I3532]</strong></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>Students registered in a degree program.</td>
<td>Scotiabank</td>
</tr>
<tr>
<td><strong>T.K. Warley Bursaries [I3510]</strong></td>
<td>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 &quot;Experience Agriculture&quot;. 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.</td>
<td>2 awards of $1,000</td>
<td>O.A.C. Alumni Association</td>
<td></td>
</tr>
<tr>
<td><strong>University of Guelph Access Bursaries [I3522]</strong></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 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 of various amounts</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>Alumni and Friend of the University of Guelph</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

**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 Bursaries [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 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

**Qualification(s):** Undergraduate students in any O.A.C. program with demonstrated financial need. Additionally, students must meet the government-mandated financial need. 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.

**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 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. Deadlines are June 30 for Fall and Winter travel. 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.

**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. Up to 80% of estimated travel costs to a maximum of $1,000.

**Amount:** several up to a maximum of $1000

Canada’s Outdoor Farm Show Travel Grants [T3556]

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) would be willing to present report to classmates and/or faculty.

**Donor(s):** Canada’s Outdoor Farm Show

**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
## IX. Scholarships and Other Awards, Bachelor of Bio-Resource Management Degree

### Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]

The Canadian Friends of the Hebrew University, with the assistance of the Government of Ontario’s Student Financial Services program, have established these travel scholarships to assist students to 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 $7,500.

**Donor(s):** Canadian Friends of the Hebrew University in Jerusalem  
**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 approval 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, 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 O.A.C. 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

### 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 study 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

### 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 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. **ACCESS AWARD**

| Donor(s): | O.A.C. '47 |
| Qualification(s): | O.A.C. undergraduate students who have demonstrated financial need and 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. **ACCESS AWARD**

| 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 |

### Ontario International Education Opportunity Scholarship (OIEOS) [T0614]

On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30. **ACCESS AWARD**

| Donor(s): | Government of Ontario |
| Qualification(s): | Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need. |
| Amount: | approximately 71 awards of $2,500 |

### 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) |
| 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 |
| 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 associate 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. **ACCESS AWARD**

| 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. **ACCESS AWARD**

| 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

Al 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 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' 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 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 Athletics 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 [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

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. 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
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, with an emphasis on the student’s academic achievement. 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 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 the University of Guelph 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) 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):** Jack and Lillian MacDonald  
**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).  
**Amount:** 1 award of $900

**James MacMillan Memorial Scholarship [E0494]**  
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

**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. Application is not required.

**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 $6,000 stipend for summer research assistantship)

### Lloyd Dorr Memorial Hockey Scholarship [E0708]
Preference given to a former OHL Guelph Storm player. The recipient will be selected based on extraneous 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

### Mac-FACS-FRAN Alumni Entrance Scholarship - Marketing and Consumer Studies [E0521]
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 award of $1,000

### 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. 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 field 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 to honour Mike Jenkinson (OAC BSA 1965) 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 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 and whose permanent residence is outside of Ontario  
**Amount:** 1 award of $1,000

### Out-of-Province Women's Middle Distance Running Scholarship [E0635]
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  
**Qualification(s):** Entering student-athlete who is a member of the Women's Middle Distance team, who has achieved a minimum 80% admission average and whose permanent residence is outside of Ontario  
**Amount:** 1 award of $1,500

### 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)

### 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 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.
- **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 the 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 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 $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

### 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

### 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

### 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 [E0748]
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

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 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 2014, and 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):
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):
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
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. The winner is chosen from the list of alternates for the President's Scholarships. President's Scholarship nominees 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. Preference will be given to students entering the Microbiology Co-op major. Students may be contacted to provide special need circumstances if there is a short list of equal candidates. 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) |
| Donor(s): | The Blount Foundation, Inc. |
| Qualification(s): | Students entering a degree program with demonstrated financial need and entering one of the following programs on an annual rotation: B.A. in 98-99, then B.A.Sc., B. Comm., B.Sc., B.Sc.(Agr.), B.Eng., B.Sc.(Env.). Recipients must maintain a B+ average or higher, continue to demonstrate financial need and be full-time students in order to qualify for subsequent installments. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |

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. Preference will be given to 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 |
| Donor(s): | Family, friends and colleagues of Norman Gibbins |
| 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). |

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. 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. Preference will be given to candidates from Blenheim district or Kent Country and who were raised, or have worked, on a farm.

| Amount: | 1 award of $12,000 (payable over 4 years) |
| Donor(s): | Paul and Aileen Clarke |
| Qualification(s): | Students entering a degree program with demonstrated financial need and entering one of the following programs on an annual rotation: B.A. in 98-99, then B.A.Sc., B. Comm., B.Sc., B.Sc.(Agr.), B.Eng., B.Sc.(Env.). Recipients must maintain a B+ average or higher, continue to demonstrate financial need and be full-time students in order to qualify for subsequent installments. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards). |

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. Preference will be given to students entering the Microbiology Co-op major. Students may be contacted to provide special need circumstances if there is a short list of equal candidates. 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 |
| Donor(s): | Rol-Land Farms |
| 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). |

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.Com. student, in a major offered by the School of Hospitality and Tourism Management. Selection is based on 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. Preference will be given to students entering the Microbiology Co-op major. Students may be contacted to provide special need circumstances if there is a short list of equal candidates. 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 |
| Donor(s): | The Sleeman Brewing & Malting Company |
| 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.Com. 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). |

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. Preference will be given to students entering the Microbiology Co-op major. Students may be contacted to provide special need circumstances if there is a short list of equal candidates. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

| Amount: | 2 awards of $4,500 |
| Donor(s): | Anonymous |
| 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 OSOTF award (see General Statements on Awards). |

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. 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. Preference will be given to students entering the Microbiology Co-op major. Students may be contacted to provide special need circumstances if there is a short list of equal candidates. 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 |
| Donor(s): | The Mitchell Family |
| 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 OSOTF award (see General Statements on Awards). |
William Guy Walton Scholarship [E0671]
As Mr. Walton owned a family farm where the Scarborough Town Centre now sits, he wanted to help young people from that area and encourage support for agriculture. Selection will be based on academic achievement, demonstrated leadership ability and involvement in the community. Financial need may also be considered. Apply by April 15 to Student Financial Services with a letter, not more than two pages, outlining demonstrated leadership, volunteer service in the community along with a completed Financial Need Assessment Form for Entrance Awards.
Donor(s): Estate of William Guy Walton
Qualification(s): Students from any Scarborough, Ontario high school entering any program offered by O.A.C.
Amount: 1 award of $5,000

Entrance Bursaries
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
Qualification(s): 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).
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 a 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
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 OSOTE 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 $1,700

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
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): 1997-58 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 curriculumembedded experiential learning opportunities in the following academic year. 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. 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

Appraisal Institute of Canada Scholarship [I0680]

The recipient will be selected based on academic achievement in real estate courses in the Real Estate and Housing major. No application required.

**Donor(s):** The Appraisal Institute of Canada

**Qualification(s):** Students registered in the Real Estate and Housing major of the B.Comm. degree program who have completed at least 9.0 credits but no more than 12.5 credits with a minimum 70% in the last two full-time semesters.

**Amount:** 1 award of $1,000

Bachelor of Commerce Leadership Prize [C0727]

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.

**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 BComm program.

**Amount:** 1 award of a plaque

Beth Park Memorial Scholarship [I0420]

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 & Consumer Studies by May 15 with a resume and a 500-word statement documenting interest and experience in product development and/or quality management.

**Donor(s):** Holt Renfrew

**Qualification(s):** 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.

**Amount:** 2 awards of $1,000

Bill Brohman Memorial Scholarship [I0533]

Established in memory of Bill Brohman, 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.

**Donor(s):** Robinson Lott & Brohman LLP

**Qualification(s):** The award will be presented to a student enrolled in any of the majors of the B.Comm. program who have completed 10.0 to 15.0 course credits with a minimum 75% average.

**Amount:** 1 award of $1,500

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

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

C.W. Riley Prize [C0246]

The C.W. Riley Prize was established by a number of his friends and associates. Application is not required.

**Donor(s):** Friends and associates of C.W. Riley

**Qualification(s):** Student who, on graduation from Food Agriculture and Resource Economics, Agricultural Business or Resource Economics and Rural Development major, attains the highest proficiency in the area subjects.

**Amount:** 1 award of $375

Cameron Hawkins and Associates Scholarship [I0568]

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 HTM 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.

**Donor(s):** Cameron Hawkins (HAFA ’77)

**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 with a minimum 70% average in the last two full-time equivalent semesters.

**Amount:** 1 award of $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 75% average over the previous two convocations from the BComm program.

**Amount:** 1 award of $1,000
IX. Scholarships and Other Awards, Bachelor of Commerce

Central Canadian Chapter of The Society of Industrial and Office REALTORS® Scholarship [I0673]
The recipient will be selected based on academic achievement and interest in or contributions to the real estate and housing profession as evidenced by volunteer or paid work. 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.

Donor(s): Central Canadian Chapter of the Society of Industrial and Office REALTORS® (SIOR)
Qualification(s): 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.
Amount: 1 award of $4,000

Certified General Accountants of Ontario Prize for Excellence [C0025]
Awarded to the graduating student with the highest average in the three accounting courses listed. Application is not required.

Donor(s): Certified General Accountants of Ontario
Qualification(s): A graduating student who has a minimum 80% cumulative average in Intermediate Accounting ACCT*3330, Intermediate Financial Accounting ACCT*3340, Management Accounting ACCT*2230 and Intermediate Management Accounting ACCT*3230.
Amount: 1 award of $500, plus 1 year tuition and course fee towards the CGA program. (approximate value 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

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 $300

Cheryl Somerville Memorial Leadership Scholarship [I0647]
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.

Donor(s): Family and Friends of Cheryl Somerville
Qualification(s): 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.
Amount: 1 award of $1,000

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 $1,400

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

CME Distinguished Scholar Medal – Undergraduate (Winegard Medal Nominee) [C0685]

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
Qualification(s): CME's Winegard Medal nominee.
Amount: 1 Medal

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 [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
CSS Alumni Heritage Scholarship [I0616]
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 the student 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 [I0031]
Established in memory of David Boyes, an apiculturist. 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 criteria 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 [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

Dorothy Shantz Memorial Scholarship - Fourth Year [I0256]
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 [I0496]
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 [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 O.A.C. 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 [I0447]
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). Dr. Kean received an Honorary Doctor of Laws degree from the University of Guelph in 1997. Apply with a letter highlighting interest in management, consumer interests, and/or environmental considerations of Canadian business as well as leadership potential and a completed in-course award application form by May 15 to the Chair of the Department of Marketing & Consumer Studies Awards Committee.

Donor(s): CSA International
Qualification(s): Student with a minimum of 10.0 credits in the Marketing Management major of the B.Comm. program. Preference will be given to a co-op student.
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. 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 $800

E.D. Smith Scholarship in Food Service Administration [I0364]
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 food service 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 CFSEEA).
Amount: 1 award of $1,000
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 as a student-athlete.

Amount: 1 award of $1,500

Ellen Nilsen Memorial Scholarship [10047]
Apply to the Director for International Development Studies with a transcript, cv/resume, and a cover letter outlining how past experiences demonstrate a commitment to social change by January 30th. Preference will be given to a student registered in an undergraduate program at the University of Guelph.

Donor(s): The Friends of Ellen Nilsen
Qualification(s): Registered academically outstanding female students from developing countries who have demonstrated a commitment to social change.
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 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 [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

G.H. Mann Food Service Scholarship [10174]
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 [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

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 any major offered by the School of Hospitality and Tourism Management, who has achieved a minimum 70% average in the previous academic year.
Amount: 1 award of a Plaque

Gerd and Christel Baldau Men's Basketball Scholarship [10639]
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 [10563]
Established 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 |

### Greater Toronto Hotel Association Scholarship [I0573]

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 [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.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 [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 & District Human Resource Professionals Association [I0656]

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 (HRPACO) 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 [I0562]

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 [I0501]

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 |

### HAFA/HTM Alumni Association Recognition of Achievement Prize [C0351]

Established in recognition of student involvement in the life of the School of Hospitality and Tourism Management and/or the University. Selection will be based on the number of extracurricular activities and the level of involvement. Apply by January 31, to the HTM Awards Committee by using the standard HTM scholarship application form with a resume and detailed list of extracurricular activities.

| Donor(s): | The HAFA/HTM Alumni Association |
| Qualification(s): | A graduating student in a major offered by the School of Hospitality and Tourism Management who has at least a 70% average and involvement in extra-curricular activities. |
| Amount: | 1 award of $500 and a framed certificate |

### 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, 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 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 |

### Homestead Land Holdings Prize [I0629]

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 BComm. 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 |
IX. Scholarships and Other Awards, Bachelor of Commerce

**Hospitality Financial & Technology Professionals Scholarship [I0610]**

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 BComm. 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 [I0445]**

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 [I0637]**

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 Applications 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 [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. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University, two academic and/or professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students form. 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%, and is registered at the time of application.

**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 (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

**Donor(s):** Jack and Lillian 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 conviction 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

**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 two letters of reference where one demonstrates volunteer experience with the elderly and the other demonstrates extracurricular activities.

**Donor(s):** Mr. Robert N. Carter and Family

**Qualification(s):** Students majoring in Gerontology or Adult Development, Families & Well-Being in the BASc. program who have completed at least 10.0 credits and have a minimum 70% cumulative average.

**Amount:** 1 award of $1,000

**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 to Student Financial Services by May 15 with a letter the 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 family $2,500

**Joan Doherty Memorial Graduate Scholarship [C0090]**

A scholarship has been established in memory of Joan Doherty, Class of ‘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. Doherty

**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 Doherty Memorial Scholarship.

**Amount:** 1 award of $2,000

**Joan Doherty Memorial Scholarship [I0091]**

The family of Joan Doherty, 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. Doherty

**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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Selection Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Burton Scholarship [I0642]</td>
<td>$1,000</td>
<td>Students registered in any program offered by the OAC who have completed between 10.0 and 12.0 credits with a minimum 70% average</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 has 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>
</tr>
<tr>
<td>John Deere Foundation of Canada Scholarship [I0516]</td>
<td>$2,000</td>
<td>Student registered in the B.Sc. (Agr) (Food Agriculture and Resource Economics), B.Sc. (Agri) 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 once only.</td>
<td>Established through the generosity of The John Deere Foundation of Canada to recognize academic excellence. Application is not required.</td>
</tr>
<tr>
<td>John Eccles Scholarship [I0093]</td>
<td>$600</td>
<td>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.</td>
<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>
</tr>
<tr>
<td>John J. Campbell Memorial Scholarship [I0453]</td>
<td>$1,000</td>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>John Kenneth Galbraith Scholarship in Economics [I0108]</td>
<td>$1,000</td>
<td>Students registered in any major offered by the Department of Economics who have completed between 12.50 and 15.00 credits.</td>
<td>Selection will be based on the highest combined average in Economics (ECON) courses. No application necessary.</td>
</tr>
<tr>
<td>Kae and Gordon Skinner Memorial Scholarship [C0258]</td>
<td>$600</td>
<td>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.</td>
<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>Katherine Fuller Scholarship [I0107]</td>
<td>$1,000</td>
<td>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%.</td>
<td>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.</td>
</tr>
<tr>
<td>Kelly Bertrand Cross Country Scholarship [I0684]</td>
<td>$2,000</td>
<td>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.</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>
</tr>
<tr>
<td>Ken and Marilyn Murray Scholarship [I0734]</td>
<td>$2,000</td>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>Kenneth W. Hammond Prize [I0045]</td>
<td>$2,000</td>
<td>Student who has best demonstrated an understanding of the world’s resource situation and its proper use by humankind.</td>
<td>The evaluation of the student will be based on the final essay in the &quot;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.</td>
</tr>
<tr>
<td>Kevin Durie Memorial Scholarship [I0653]</td>
<td>$1,000</td>
<td>Student 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.</td>
<td>Established in memory of Kevin Durie, BA ’93, by his family and friends. The award will be made on the basis of outstanding service as a Residence Life staff member, 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. Apply by October 31st to Student Housing Services, Associate Director, Residence Life and Family Housing and include a letter of reference and personal statement.</td>
</tr>
<tr>
<td>Kip Hunter Prize [I0139]</td>
<td>$850</td>
<td>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</td>
<td>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</td>
</tr>
</tbody>
</table>

2011-2012 Undergraduate Calendar
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

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

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 while 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, 1981-88, 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 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 [10708]

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 was 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 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 [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

Marketing Management Academic Achievement Scholarship (Undergrad) [10694]
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. Real Estate and Housing or Housing and Real Estate Management who have completed at least 9.0 credits with a minimum 80% cumulative average and participation in extracurricular activity.
Amount: 1 award of $1,000

MCS Outstanding Undergraduate Marketing Major Scholarship [10692]
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 and have a minimum 80% cumulative average.
Amount: 1 award of $2,000

MCS Outstanding Undergraduate Real Estate and Housing Scholarship [10693]
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 [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

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 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 [10654]
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

Out-of-Province Women’s Middle Distance Running Scholarship [10635]
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
Qualification(s): In-course student-athlete who is a current member of the Women’s Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario.
Amount: 1 award of $1,500

PCMA Canada East Chapter Scholarship [10590]
Apply using the standard HTM scholarship application to the HTM Awards Committee by January 31 and include a resume and statement of up to 500 words describing involvement in PCMA.

Donor(s): Professional Convention Management Association (PCMA) Canada East Chapter
Qualification(s): Students in a major of the B.Comm. program offered by the School of Hospitality and Tourism Management that has completed at least 10.5 credits with at least a 70% average in the last two full-time equivalent semesters and is involved with the PCMA Student Chapter at the University of Guelph or is a student member of the Canada East Chapter, PCMA Branch.
Amount: 1 award of $1,000

Priscilla and Stanford Reid Trust Prize [10597]
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
IX. Scholarships and Other Awards, Bachelor of Commerce

Professional Staff Association Scholarship [I0628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 with a letter including 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

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

Shirley Louie Memorial Scholarship [I0392]
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 [I0690]
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 [I0550]
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.Comm. 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.(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

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

Last Revision: March 15, 2014
2011-2012 Undergraduate Calendar
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toronto District Beekeeper's Association Scholarship [10285]</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>Westmont Hospitality Group Scholarship [I0126]</td>
<td>Westmont Hospitality Group</td>
<td></td>
<td>1 award of $100</td>
</tr>
<tr>
<td>Westmont Hospitality Group Scholarship [I0126]</td>
<td>Westmont Hospitality Group</td>
<td></td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>W.N. Vaughan Medal [C0299]</td>
<td>Friends of Walter N. Vaughan</td>
<td>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.</td>
<td>1 award of a Medal</td>
</tr>
<tr>
<td>Walter M. Stewart Scholarships [I0273]</td>
<td>W.C. Macdonald Company, Montreal now The Macdonald Stewart Foundation</td>
<td>Students registered in the Marketing Management or Real Estate and Housing majors of the B.Comm program who have completed between 10.0 and 15.0 credits.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Warren Jestin Scholarship in Canadian Economic Policy [I0557]</td>
<td>Warren Jestin</td>
<td>Full-time registered in BAH.ECON or BCOM.MEIF that has a substantial contribution to economic policy.</td>
<td>1 award of $600</td>
</tr>
<tr>
<td>Waterloo-Wellington CA Association Scholarship [I0367]</td>
<td>Waterloo-Wellington Chartered Accountants Association</td>
<td>Student who achieves the highest cumulative average across all economics policy courses taken.</td>
<td>Application is not required.</td>
</tr>
<tr>
<td>William Furlong Scholarship in Microeconomics [I0582]</td>
<td>Colleagues &amp; Friends of Dr. William Furlong</td>
<td>Full-time students enrolled in Introductory Microeconomics (ECON*1050) in the fall semester.</td>
<td>3 awards of $200</td>
</tr>
</tbody>
</table>

**Notes:**
- **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
- **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
IX. Scholarships and Other Awards, Bachelor of Commerce

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 $3,000

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
Qualification(s): Students who have a minimum 75% average and are registered in any degree 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

Bill Allen Scholarship [I4544]
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 [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
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

Canada Bread Limited Scholarships [I4509]
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
Qualification(s): Student 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 70% 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 [I4503]
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
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 70% 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 [14502]
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
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 [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
Qualification(s): Students registered in any program with a minimum of 9.0 credits who have cumulative 70% average, 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 May 15 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): A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This award is payable in the second year (ie. completed 5.0 course credits) of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.
Amount: 1 award of $2,000

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 based on high academic achievement. Apply by October 7th to Student Financial Services, by October 7. ACCESS AWARD
Donor(s): Ernest Kendall
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: 2 awards 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.
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 [14533]
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.
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 [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
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 $5,000

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
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 OSOTF award (see General Statements on Awards).
Amount: 2 awards of $3,500

Journey's End Management Inc. Scholarships (ACCESS) [14504]
Provided by Journey's End Corporation 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. The award will be distributed based on financial need. ACCESS AWARD
Donor(s): Journey's End Corporation
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 OSOTF 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 high academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD
Donor(s): Jane and George Spence
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
IX. Scholarships and Other Awards, Bachelor of Commerce

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
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 $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 on or before 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

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
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: 1 award of $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
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
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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services.
Donor(s): The Giuliani Family
Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need.
Amount: 1 award of $880

TDL Group Corp. Brian Cresswell Memorial Scholarship [I4545]
This scholarship was established by the TDL Group Corporation with the assistance of the Ontario government’s OTSS program and is awarded in memory of Brian Cresswell, former Assistant Director of Research and Development, who during his 13 years with the TDL Group Corp, was instrumental in the development of some of Tim Hortons’ most successful products. He is remembered by his friends at TDL for his positive attitude, passion and incredible commitment to the company. 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. Awarded in the Winter semester. ACCESS AWARD.
Donor(s): The TDL Group Corporation
Qualification(s): Students registered in the Hotel and Food Administration major of the B.Comm. degree program who have completed at least 8.0 credits but no more than 17.5 credits with a minimum 75% average in the last two full-time equivalent semesters 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 $4,500

Tony and Anne Arrell Scholarships [I0686]
Tony Arrell, OAC B.Sc. (Agr.) ’67 and Anne Arrell, MAC BHISC ’88 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
### Tourism Toronto Scholarship [10660]
The recipient will be selected based on academic performance and evidence of interest in pursuing a career in the tourism industry, particularly in the Greater Toronto area. Apply to Student Financial Services by October 7 with a Financial Need Assessment Form and using the HTM Awards Application Form and a statement of up to 500 words citing your interest in pursuing a career in the tourism industry. Preference will be given to students with financial need. Students must list this award name on the N.A.F. Awarded in the Winter semester.

**Donor(s):** Tourism Toronto  
**Qualification(s):** Students in the Tourism Management major of the BComm degree program offered by the School of Hospitality and Tourism Management who have completed at least 11.0 credits with a minimum 75% average in the last two full-time equivalent semesters.  
**Amount:** 2 awards of $1,500

### 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  
**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

### Westmont Hospitality Group ACCESS Scholarship [14126]
Provided by Journey's End Corporation 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 award will be distributed based on financial need. ACCESS AWARD

**Donor(s):** Journey's End Corporation  
**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 OSOTF award (see General Statements on Awards).  
**Amount:** 1 award of $1,000

### William & Nona Haslip 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 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 Haslip 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 Accessiblility 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

#### 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  
**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 [13511]
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  
**Qualification(s):** Full-time B.Comm. 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 [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  
**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
# IX. Scholarships and Other Awards, Bachelor of Commerce

## 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. 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. WIJ. Squirrell)

**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 [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

**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:** 2 awards 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

**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 [13507]

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

**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 [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

**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 up to $2000

## 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

**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

## Gonder Family Bursary [13543]

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 for a maximum of three times (years two to four of study). ACCESS AWARD

**Donor(s):** Dr. John Gonder and family

**Qualification(s):** 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).

**Amount:** 1 award of $1,000

## Grand River Chapter (Society of Management Accountants of Ontario) Bursary [13032]

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.

**Donor(s):** Society of Management Accountants of Ontario

**Qualification(s):** Full-time student in financial need and registered in the B.Comm. program.

**Amount:** 1 award of $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.

**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

**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

**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

**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

**Joan Weatherly Memorial Bursary [I3065]**

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

---

Gwen Karr Memorial Bursary

Howard and Myrtle Rogers Bursaries

International Emergency Medical Aid Assistance

International Student Bursaries

Irvine and Grace Black Memorial Bursary

Joan Weatherly Memorial Bursary

2011-2012 Undergraduate Calendar Last Revision: March 15, 2014
IX. Scholarships and Other Awards, Bachelor of Commerce

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. H.H. Leroux

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

Marie Hardacre Bursary [I3548]

Established by Mrs. A. Marie Hardacre, MAC DHE 1930 for students in CSAHHS 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

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

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

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

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

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

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

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 [I3502]

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

Qualification(s): Students who have completed a minimum of 10.0 credits in the B.Sc.(Agr.) program in either an uncompensated or major 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 [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

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. Forsjaw Bursary [I3013]

The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forsjaw 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. Forsjaw

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. ACCESS AWARD.

Donor(s): Ontario Federation of Agriculture

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

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
<table>
<thead>
<tr>
<th><strong>Ontario Grape Growers Bursary</strong> [I3033]</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Ontario Pork (Degree) Bursary</strong> [I3049]</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Robert Auger Humanitarian Bursary</strong> [I3058]</th>
</tr>
</thead>
<tbody>
<tr>
<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>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Scotiabank Bursaries</strong> [I3532]</th>
</tr>
</thead>
<tbody>
<tr>
<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>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>T.K. Warley Bursaries</strong> [I3510]</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 &quot;Experience Agriculture&quot;. 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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>University of Guelph Access Bursaries</strong> [I3522]</th>
</tr>
</thead>
<tbody>
<tr>
<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 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></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>University of Guelph Alumni Association Access Bursaries</strong> [I3523]</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>University of Guelph Child Care Bursaries</strong> [I3053]</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>University of Guelph International Bursary</strong> [I3048]</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 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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>University of Guelph Undergraduate In-Course Bursaries (MET-TR-UG)</strong> [I3037]</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>University of Guelph Undergraduate In-Course Bursaries (NON OSAPTR)</strong> [I3047]</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>University Police Bursaries</strong> [I3019]</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
</tr>
</tbody>
</table>
### 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 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 Committee by completing the CSAHS 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  
**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. Laternon Undergraduate Travel Grants [T0058]
An endowment fund established in memory of Arthur D. Laternon, 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. Laternon  
**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  
**Qualification(s):** Undergraduate students in O.A.C. who have completed spring 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  
**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
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 MAY 15, TO THE HTM AWARDS COMMITTEE.

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 date 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 who have demonstrated qualities of leadership, involvement, and demonstrated financial need.

Donor(s): Mr. F.W. Bray

Qualification(s): Student who is 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.

Donor(s): 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 letter outlining the intended study program/conference/or other type of learning opportunity.

Donor(s): The estate of J.D. Cunningham

Qualification(s): Students currently enrolled in an 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

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

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 Miyanishi International Travel Grant [T0742]

Established by Dr. Kiyoko Miyanishi, 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. 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 Miyanishi 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 [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 $500
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
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

Ontario International Education Opportunity Scholarship (OIEOS) [T0614]
On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

Donor(s): Government of Ontario
Qualification(s): Canadian citizens, permanent residents, or a protected person registered in a in minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.
Amount: approximately 71 awards of $2,500

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)
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
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 associate 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

Last Revision: March 15, 2014
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

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 4-H and the position titles/names, if applicable. Attach a reference letter from a 4-H club official. These scholarships will be awarded to the students demonstrating the most active involvement with 4-H clubs. The committee will consider any appropriate elements, such as the length of membership in 4-H, leadership role(s) in support of 4-H outreach, and coordination with other rural and academic activities. Credit will be given to those who have achieved in county, provincial and national 4-H 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)

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)

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 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 honors 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

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 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 honors 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. 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

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 SBC 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 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 entering any 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):** Jack and Lillian MacDonald  
**Qualification(s):** Entering students 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

Latifpour-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 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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lincoln Alexander Scholarships [E0689]</strong></td>
<td></td>
<td>Students entering any degree program who have been interviewed for 12 awards of $1,000</td>
<td>Many Donors</td>
</tr>
<tr>
<td><strong>Family and Friends of the late Lloyd Dorr</strong></td>
<td></td>
<td>Students entering any degree program who have been interviewed for 4 awards of $2,500</td>
<td>Family and Friends of the late Lloyd Dorr</td>
</tr>
<tr>
<td><strong>Moulton-Hutchinson Family Track and Field Scholarship [E0705]</strong></td>
<td>1 award of $3,500</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>The Moulton and Hutchinson Families</td>
</tr>
<tr>
<td><strong>McArthur-Humphries Scholarship [E0183]</strong></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. In addition, students must be: Aboriginal; or a person with a disability; or a member of a racial minority.</td>
<td>Wilhelmina McArthur-Humphries Trust Fund</td>
</tr>
<tr>
<td><strong>Men's Basketball Scholarships [E0638]</strong></td>
<td>12 awards of $1,000</td>
<td>Students entering any degree program with a minimum 80% admission average.</td>
<td>Anonymous (Alumnus)</td>
</tr>
<tr>
<td><strong>Out-of-Province Women's Middle Distance Running Scholarship [E0635]</strong></td>
<td>1 award of $1,500</td>
<td>Entering student-athlete who is a member of the Women's Middle Distance team, who has achieved a minimum 80% admission average and whose permanent residence is outside of Ontario</td>
<td>Anonymous</td>
</tr>
<tr>
<td><strong>Pamela Wallin Chancellor’s Scholarships [E0688]</strong></td>
<td>1 award of $1,500</td>
<td>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.</td>
<td>University of Guelph</td>
</tr>
<tr>
<td><strong>President’s &amp; Chancellor’s Finalists Scholarship [E0651]</strong></td>
<td>2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)</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>Provost, and Vice-President Academic of the University of Guelph</td>
</tr>
<tr>
<td><strong>Lincoln Alexander Scholarships</strong></td>
<td></td>
<td>Students entering any degree program with a minimum 75% admission average.</td>
<td></td>
</tr>
<tr>
<td><strong>President’s Scholarships</strong></td>
<td></td>
<td>Entering student-athlete who is a member of the varsity Men’s Hockey team and registered in an undergraduate program and who has achieved a minimum 80% admission average.</td>
<td></td>
</tr>
<tr>
<td><strong>Lloyd Dor Memorial Hockey Scholarship [E0708]</strong></td>
<td>2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)</td>
<td>The recipient will be selected 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 award cannot be held with the President’s Scholarships, the Lincoln Alexander Scholarships, or the Board of Governors’ Scholarships.</td>
<td>University of Guelph</td>
</tr>
<tr>
<td><strong>Lloyd Dorr Memorial Hockey Scholarship [E0708]</strong></td>
<td></td>
<td>Students entering any 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><strong>McArthur-Humphries Scholarship [E0183]</strong></td>
<td></td>
<td>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>Wilhelmina McArthur-Humphries Trust Fund</td>
</tr>
<tr>
<td><strong>Men’s Basketball Scholarships [E0638]</strong></td>
<td></td>
<td>Students entering any degree program with a minimum 80% admission average.</td>
<td>Anonymous (Alumnus)</td>
</tr>
<tr>
<td><strong>Out-of-Province Women's Middle Distance Running Scholarship [E0635]</strong></td>
<td></td>
<td>Students entering any degree program with a minimum 80% admission average.</td>
<td>Anonymous</td>
</tr>
<tr>
<td><strong>President’s Scholarships</strong></td>
<td></td>
<td>Students entering any 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>University of Guelph</td>
</tr>
<tr>
<td><strong>Moulton-Hutchinson Family Track and Field Scholarship [E0705]</strong></td>
<td></td>
<td>Students entering any degree program with a minimum 80% admission average.</td>
<td>The Moulton and Hutchinson Families</td>
</tr>
<tr>
<td><strong>McArthur-Humphries Scholarship [E0183]</strong></td>
<td></td>
<td>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>Wilhelmina McArthur-Humphries Trust Fund</td>
</tr>
<tr>
<td><strong>Men’s Basketball Scholarships [E0638]</strong></td>
<td></td>
<td>Students entering any degree program with a minimum 80% admission average.</td>
<td>Anonymous (Alumnus)</td>
</tr>
<tr>
<td><strong>Out-of-Province Women's Middle Distance Running Scholarship [E0635]</strong></td>
<td></td>
<td>Students entering any degree program with a minimum 80% admission average.</td>
<td>Anonymous</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 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: Ceci H. Franklin and Ingrid Franklin

In honour of Ceci 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 Cable 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.

**Donors:** 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

### 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

### 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. Application is not 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 held 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

### 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 awarded 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 [E0748]

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@auguelph.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.

**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 Klop 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 Klop
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 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 2016, 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 other entrance awards, ACCESS AWARD.

Donor(s): Mr. Peter J. Devine
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
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

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
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 Chancellor's 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 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): Rol-Land Farms
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
IX. Scholarships and Other Awards, Bachelor of Computing

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
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
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
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 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 L. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student's hometown.
Amount: 1 award of $1,700

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
Al Singleton Hockey Scholarships [10687]
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-V/C 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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bill Taylor Memorial Scholarship</strong> [I0280]</td>
<td>Applications to include a supporting letter from a coach or intramural supervisor. Apply to Student Financial Services by May 15.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>AMF Canada Ltd.</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></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>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $900</td>
</tr>
</tbody>
</table>

| **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 $1,400 |

| **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 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** [I0404] | 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 is 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** [C0058] | 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 |
IX. Scholarships and Other Awards, Bachelor of Computing

Dr. Mary McLeish Scholarship [10560]
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. Ted Swart Scholarship [10561]
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 [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

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 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 [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): 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]
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 [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

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. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University, two academic and/or professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students form. 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%, and is registered at the time of application.
Amount: 1 award of $1,000

Last Revision: March 15, 2014
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 Polytchnical Institute) who has the highest cumulative average at the University.

Donor(s): Jack and Lillian MacDonald
Qualification(s): Entering students coming from the Six Nations Polytechnic (SNP).
Amount: 1 award of $900

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.
Amount: 1 award of $600

Kelly Bertrand Cross Country Scholarship [I0684]
The recipient will be selected based on demonstrated leadership abilities, including commitment, dedication, persistence 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. The award will be made on the basis of outstanding service as a Residence Life staff member, 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. Apply by October 31st to Student Housing Services, Associate Director, Residence Life and Family Housing and include a letter of reference and personal statement.

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 average 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

Latiipour-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 Latiipour-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

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 university exchange (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
IX. Scholarships and Other Awards, Bachelor of Computing

Lloyd Dorr Memorial Hockey Scholarship [I0708]
Preference given to a former OHL Guelph Storm player. The recipient will be selected based on exceptional 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): Marion McKenzie
Qualification(s): Student in any academic program of the University who has completed at least 7.5 credits with a minimum cumulative average of 70%.
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): Various Donors
Qualification(s): Full-time students registered in the Bachelor of Computing degree program and have registered for MATH*1100. Coaches will nominate students to the Men’s Basketball Scholarship Committee. No application necessary.
Amount: 4 awards of $2,500

Out-of-Province Women’s Middle Distance Running Scholarship [I0635]
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): Student registered in any undergraduate degree program, who has been a 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 $1,000

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 $3,500 each

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 Athletics Awards Committee. No application necessary.

Donor(s): Russell
Qualification(s): Full-time students registered in any undergraduate degree program and have achieved a minimum 70% cumulative average or equivalent during the previous academic year as a student-athlete.
Amount: 3 awards of $400

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

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 varsity 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 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): Stephanie Wilken
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 $1,000

Professional Staff Association Scholarship [I0628]
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 with a letter including 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

Tom Mooney Scholarship [I0709]
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): 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 [10285]

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 [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 Local 4120  
**Qualification(s):** Student who is a member or former member, or who is from the immediate family of a member of United Steelworkers Local 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 and volunteer contributions 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 L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships [I0703]

The recipients will be selected based on extracurricular 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 extracurricular 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 $3,000

#### 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  
**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  
**Qualification(s):** Students with demonstrated financial need registered in any major 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 $750
### Scholarships and Other Awards, Bachelor of Computing

#### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>The Guelph Community Foundation</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 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>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $2,000</td>
</tr>
</tbody>
</table>

#### 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 University of Guelph’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>Earl B. MacNaughton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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).</td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $1,000</td>
</tr>
</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>The Family of Eleanor &amp; Bill Archibald</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</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>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $1,000</td>
</tr>
</tbody>
</table>

#### 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 May 15 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Family and friends of Erin Katrina Demers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This award is payable in the second year (i.e. completed 5.0 course credits) of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $2,000</td>
</tr>
</tbody>
</table>

#### 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

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Ernest Kendall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</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>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $1,350</td>
</tr>
</tbody>
</table>

#### 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

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Euclid-Hitachi of Canada Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</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>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $1,500</td>
</tr>
</tbody>
</table>

#### Graham Family Incentive Scholarship [14806]
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

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Harvey Graham O.A.C. ’39</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</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>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $5,000</td>
</tr>
</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mrs. Margaret L. Middleton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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).</td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $5,000</td>
</tr>
</tbody>
</table>

#### 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

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mr. John Embry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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).</td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $3,500</td>
</tr>
<tr>
<td>Scholarship Name</td>
<td>[ID]</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Residence Life Staff Scholarship [I0697]</td>
<td></td>
</tr>
<tr>
<td>Returning Student Residence Scholarship [I0696]</td>
<td></td>
</tr>
<tr>
<td>Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [E4515]</td>
<td></td>
</tr>
<tr>
<td>Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [I4515]</td>
<td></td>
</tr>
<tr>
<td>Tara Lynn Giuliani Memorial Scholarship [I0375]</td>
<td></td>
</tr>
<tr>
<td>Tony and Anne Arrell Scholarships [I0686]</td>
<td></td>
</tr>
<tr>
<td>University of Guelph Retiree Association Degree Scholarship [I0569]</td>
<td></td>
</tr>
<tr>
<td>W. F. Mitchell Athletic Scholarship [I4550]</td>
<td></td>
</tr>
<tr>
<td>William &amp; Nona Heaslip Scholarship [I0589]</td>
<td></td>
</tr>
<tr>
<td>In-course Bursaries</td>
<td></td>
</tr>
</tbody>
</table>
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.

**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

**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

**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

**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 up to $2000

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. ACCESS AWARD

**Donor(s):** Gryphon Investment Council Inc.

**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

**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

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

**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

**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  
**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. Forsshaw Bursary [I3013]**

The Co-operatives, Credit Unions, friends and associates of Prof. R. P. Forsshaw 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. Forsshaw  
**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 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  
**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  
**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

**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  
**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  
**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 varying

**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 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 totaling $7500.

**Donor(s):** Canadian Friends of the Hebrew University in Jerusalem

**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 university-mandated terms for receipt of an OSOTF (see General Statements on Awards).

**Amount:** A number of awards to a maximum of $7,500

**Ontario International Education Opportunity Scholarship (OIEOS) [T0614]**

On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

**Donor(s):** Government of Ontario

**Qualification(s):** Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.

**Amount:** approximately 71 awards of $2,500
### 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)

**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

**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
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

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 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 $2,500

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

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.

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 who has achieved a minimum 80% admission average.
Amount: 1 award of $1,500

Last Revision: March 15, 2014
Emory 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 Chancellor’s Scholarships or the Board of Governors’ Scholarships. Application is not required.

Donor(s): Ernest W. Kendall
Qualification(s): Entering student 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 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): Jack and Lillian 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 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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Award Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Larry Pearson Men’s Volleyball Athletic Scholarships [E0618]</strong></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. <strong>Donor(s):</strong> Larry Pearson <strong>Qualification(s):</strong> Entering student-athlete who is a member of the men's varsity volleyball team and who has achieved a minimum 80% admission average. <strong>Amount:</strong> several awards up to $3,500</td>
</tr>
<tr>
<td><strong>Latifpoor-Keparoutis Family Varsity SwimTeam Scholarship [E0732]</strong></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. <strong>Donor(s):</strong> Maryam Latifpoor-Keparoutis <strong>Qualification(s):</strong> Entering student-athlete who is a member of the varsity swim team and who has achieved a minimum 80% admission average. <strong>Amount:</strong> 1 award of $1,200</td>
</tr>
<tr>
<td><strong>Lincoln Alexander Scholarships [E0689]</strong></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. <strong>Donor(s):</strong> Many Donors <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 2 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><strong>Lloyd Dorr Memorial Hockey Scholarship [E0708]</strong></td>
<td>Preference given to a former OHL Guelph Storm player. The recipient will be selected based on demonstrated hockey and leadership qualities. Coaches will nominate students to the Athletic Awards Committee. No application is necessary. <strong>Donor(s):</strong> Family and Friends of the late Lloyd Dorr <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $1,000</td>
</tr>
<tr>
<td><strong>McArthur-Humphries Scholarship [E0183]</strong></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. <strong>Donor(s):</strong> Wilhelmina McArthur-Humphries Trust Fund <strong>Qualification(s):</strong> Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties. <strong>Amount:</strong> 12 awards of $1,000</td>
</tr>
<tr>
<td><strong>Men’s Basketball Scholarships [E0638]</strong></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. <strong>Donor(s):</strong> Anonymous (Alumnus) <strong>Qualification(s):</strong> Entering student-athlete who is a member of the varsity Men's Basketball team and who has achieved a minimum 80% admission average. <strong>Amount:</strong> 4 awards of $2,500</td>
</tr>
<tr>
<td><strong>Moulton-Hutchinson Family Track and Field Scholarship [E0705]</strong></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. <strong>Donor(s):</strong> The Moulton and Hutchinson Families <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $3,500</td>
</tr>
<tr>
<td><strong>Out-of-Province Women’s Middle Distance Running Scholarship [E0635]</strong></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. <strong>Donor(s):</strong> Anonymous <strong>Qualification(s):</strong> Entering student-athlete who is a member of the Women's Middle Distance team who has achieved a minimum 80% admission average and whose permanent residence is outside of Ontario <strong>Amount:</strong> 1 award of $1,500</td>
</tr>
<tr>
<td><strong>Pamela Wallin Chancellor’s Scholarships [E0688]</strong></td>
<td>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. <strong>Donor(s):</strong> University of Guelph <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 2 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><strong>Phyllis Mary Carpenter Scholarship [E0503]</strong></td>
<td>Awarded to the student with the highest entering admission average. Application is not required. <strong>Donor(s):</strong> The Carpenter Family Fund, administered by the Hamilton Community Foundation <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $1,500</td>
</tr>
<tr>
<td><strong>President’s &amp; Chancellor’s Finalists Scholarship [E0651]</strong></td>
<td>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. <strong>Donor(s):</strong> Provost, and Vice-President Academic of the University of Guelph <strong>Qualification(s):</strong> Students entering any degree program who have been interviewed for consideration for a President's or Chancellor's Scholarship. <strong>Amount:</strong> several awards of $500</td>
</tr>
</tbody>
</table>
A number of President’s Scholarships have been named in honour of the following people and/or donors:

- Ceci H. Franklin and Ingrid Franklin
  In honour of Ceci H. 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 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. Metcalfe of Guelph have endowed this award. After a distinguished career in cable TV, broadcasting and publishing, the late Mr. Metcalfe 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 assistantship)

**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

**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

**Amount:** 1 award of $2,250

**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

**Amount:** 1 award of $1,000

**Walter and Halina Slabikowski Scholarship [E0748]**

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

**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

**Amount:** 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

**Amount:** Numerous awards ranging in value from $750 to $3,500
IX. Scholarships and Other Awards, Bachelor of Engineering

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 qualifications. 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 with 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 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 2016, 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
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 extracurricular 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
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. The winner is chosen from the list of alternates for the President's Scholarships. President's Scholarship nominees shall 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. During the summer after the 3rd year, the scholars will propose, to Student Financial Services, an enrichment experiential undertaking related to the student's field of study; the grant application should include a detailed budget. A grant of up to $1,200 is available to support the undertaking, subject to continuing financial need and approval of the proposal by Student Financial Services. Upon completion, the student will write a report of the experience to Student Financial Services. ACCESS AWARD.

Donor(s): The Blount Foundation, Inc.
Qualification(s): Students who have been nominated for a President's Scholarship with demonstrated financial need and entering one of the following programs on an annual rotation: B.A. in 98/99, then B.A.Sc., B.Comm., B.Bus.Sci.(Ag.), B.Eng., B.Sc.(Env.). Recipients must maintain a B+ average or higher, continue to demonstrate financial need and be full-time students in order to qualify for subsequent installments. 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)

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
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 tenable with the President's Scholarships or Lincoln Alexander Chancellor's 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)
Students entering a degree program with demonstrated financial need.

University of Guelph

Students entering any degree program with a minimum registration of 1.5 credits and demonstrated financial need.

Amount: Several awards ranging in value from $1,000 to $3,000

Registrar’s Entrance Bursaries [E3038]

Established by the University of Guelph to support entering undergraduate students with 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 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 80.0% admission average.

Amount: 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval

In-course Scholarships

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

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

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 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

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

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

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. 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 $1,700
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

Association of Professional Engineers Medal [C0019]
Application is not required.
**Donor(s):** Professional Engineers of Ontario
**Qualification(s):** Graduate of an accredited engineering program, obtaining the highest average in the practical work and written examinations of the year.
**Amount:** 1 award of a Gold medal

Association of Professional Engineers of Ontario Scholarships [I0018]
Apply to the Chair of the Awards Committee, School of Engineering, by March 31.
**Donor(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.
**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 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

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 $1,400

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 Scholarship [I0076]
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):** Students registered in Year 4 in any degree program in Year 3, Winter or Spring semesters and who is enrolled in Year 4 of a College of Physical and Engineering Science program.
**Amount:** 1 award of $250

CSCE Environmental and Water Resources Engineering Scholarships [I0549]
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 $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
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

---

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 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

---

Football Endowment Fund (EEF) 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 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

---

*Helen Grace Tucker Design Prizes [C0365]*

Established by a bequest of Helen Grace Tucker, 65 Engineering, who was co-inventor of a number of patented sensor and control components and co-author of many international publications. Application is not required.

**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 [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. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extra-curricular activity since entry to the University, two academic and/or professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students form. 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%, and is registered at the time of application.

**Amount:** 1 award of $1,000
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Details</th>
</tr>
</thead>
</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):** Jack and Lillian MacDonald  
**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP).  
**Amount:** 1 award of $900 |
| Jim MacKenzie Scholarship [I0602] | Established to honour of Jim MacKenzie's retirement as President and C.E.O. in 2005. Selection will be based on a combination of academic achievement and creative or innovative thought in the area of energy conservation as demonstrated by one of the following: co-op work experience (documented in work report); class project (documented in written report); involvement in energy-related projects/activities associated with the University of Guelph or the City of Guelph (documented in written report); or 500-word essay on energy conservation. Apply to the Chair, School of Engineering Awards Committee by March 1 with documentation as suggested above.  
**Donor(s):** Guelph Hydro  
**Qualification(s):** 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 $1,500 |
| John Deere Canada Ltd. Environmental Engineering Scholarship [I0548] | Established by the generosity of the John Deere Corporation to a full-time environmental engineering student who has completed a minimum of 17.0 credits (with a minimum of 5.0 credits in the previous year). Apply before September 15 with a letter and a resume to the Chair of the School of Engineering Awards Committee.  
**Donor(s):** John Deere Foundation of Canada  
**Qualification(s):** Selection will be based on a combination of academic achievement and contributions to the community, the University, and the School of Engineering through the participation in and leadership of extracurricular activities.  
**Amount:** 2 awards 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 70% 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. The award will be made on the basis of outstanding service as a Residence Life staff member, 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. Apply by October 31st to Student Housing Services, Associate Director, Residence Life and Family Housing and include a letter of reference and personal statement.  
**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 |
| Knut Karl Grimstad Memorial Scholarship [I0116] | Application is not required.  
**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 |
| 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 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 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

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 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]
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

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

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

Out-of-Provence Women’s Middle Distance Running Scholarship [I0635]
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
Qualification(s): In-course student-athlete who is a current member of the Women’s Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario.
Amount: 1 award of $1,500

Pricilla and Stanford Reid Trust Prize [I0597]
Established in honour the first chair of the History Department, Stanford Reid, and his wife, Pricilla 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): Pricilla 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 with a letter including 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 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

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
IX. Scholarships and Other Awards, Bachelor of Engineering

### 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

### Taggart Scholarship in Biological Engineering [I0278]

Apply by letter and a resume to the Chair of the School of Engineering Awards Committee by October 1.

**Donor(s):** Ontario Agriculture College Fund  
**Qualification(s):** 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.

**Amount:** 1 award of $600

### 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.

**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 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.

**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 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 extra curricular awards and leadership qualities.

**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

---

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
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 $3,000

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
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.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 on only one ACCESS AWARD.

Donor(s): Established by a number of industrial, commercial and public sector corporations
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 $750

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 on only one.

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 [I1472]
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
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 [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, 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 May 15 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): A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This award is payable in the second year (ie. completed 5.0 course credits) of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.
Amount: 1 award of $2,000

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
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: 2 awards 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.
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
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 $5,000
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Embry Family Scholarship [I4549]</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 Awards Committee. Students must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.</td>
<td>Mr. John Embry</td>
<td>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).</td>
<td>2 awards of $3,500</td>
</tr>
<tr>
<td>Residence Life Staff Scholarship [I0697]</td>
<td>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.</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>
<tr>
<td>Returning Student Residence Scholarship [I0696]</td>
<td>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.</td>
<td>Student Housing Services</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>3 awards of $500</td>
</tr>
<tr>
<td>Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [E4515]</td>
<td>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. Students apply by April 15 to Student Financial Services with a completed Financial Need Assessment Form for Entrance Awards. ACCESS AWARD.</td>
<td>Sheryl and David Kerr</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. Additionally, students must meet the government-mandated terms for receipt of an OTSS award (see General Statements on Awards).</td>
<td>various awards of up to $3,500</td>
</tr>
<tr>
<td>Sheryl and David Kerr Women's Varsity Ice Hockey Scholarship [I4515]</td>
<td>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. Students apply by October 7 to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD.</td>
<td>Sheryl and David Kerr</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 (see General Statements on Awards).</td>
<td>various awards of up to $3,500</td>
</tr>
<tr>
<td>Tara Lynn Giuliani Memorial Scholarship [I0375]</td>
<td>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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services. Students must have a minimum 70% cumulative average and having financial need.</td>
<td>The Giuliani Family</td>
<td>Most academically promising applicant with a demonstrated disability and having financial need.</td>
<td>1 award of $880</td>
</tr>
<tr>
<td>Tony and Anne Arrell Scholarships [I0686]</td>
<td>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.</td>
<td>Tony and Anne Arrell, Burgundy Asset Management</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>20 awards of $5,000</td>
</tr>
<tr>
<td>The University of Guelph Retiree Association Degree Scholarship [I0569]</td>
<td>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.</td>
<td>University of Guelph Retirees Association (U.G.R.A.)</td>
<td>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.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>W. F. Mitchell Athletic Scholarship [I4550]</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 must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD.</td>
<td>The Mitchell Family</td>
<td>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).</td>
<td>1 award of $1,350</td>
</tr>
<tr>
<td>William &amp; Nona Heaslip Scholarship [I0589]</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 study. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.</td>
<td>The William and Nona Heaslip Foundation</td>
<td>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.</td>
<td>2 awards of $15,000</td>
</tr>
</tbody>
</table>
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 assessed 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

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.
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. Students will be considered for this award automatically once a N.A.F has been submitted by the deadline date.

Donor(s): Burnbrae Farms
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
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.

Donor(s): Class of ’72: 25th Reunion
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
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

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
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 up to $2000

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.
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.

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 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

**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 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

---

### 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

### Lindsay W. 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.

**Donor(s):** Family of Lindsay W. Christie (Fastforms Inc.)

**Qualification(s):** 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.

**Amount:**
- Several awards totalling $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

**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

### 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

**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

### 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 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

### Procor Ltd. 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

**Donor(s):** Procor Ltd.

**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 $900
**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

**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

**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

---

**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

**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

**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 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):** Undergraduate 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

<table>
<thead>
<tr>
<th>Aeroplan International Travel Grant [T0604]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>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.</strong></td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Aeroplan</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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>
</tr>
<tr>
<td><strong>Amount:</strong> 1 or more awards of a plane ticket</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Arthur D. Latornell Undergraduate Travel Grants [T0058]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>An endowment fund established in memory of Arthur D. Latornell, O.A.C. ’50, who had a lifetime 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.</strong></td>
</tr>
<tr>
<td><strong>Donor(s):</strong> The Estate of Arthur D. Latornell</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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.</td>
</tr>
<tr>
<td><strong>Amount:</strong> several up to a maximum of $1000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canadian Friends of the Hebrew University in Jerusalem Travel Grant [T4532]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>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.</strong></td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Canadian Friends of the Hebrew University in Jerusalem</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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).</td>
</tr>
<tr>
<td><strong>Amount:</strong> A number of awards to a maximum of $7,500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ontario International Education Opportunity Scholarship (OIEOS) [T0614]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.</strong></td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Government of Ontario</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.</td>
</tr>
<tr>
<td><strong>Amount:</strong> approximately 71 awards of $2,500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OURA Innovation Travel Grant [T4393]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>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.</strong></td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Ontario University Registrars’ Association (OURA)</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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 OTSSS award (see General Statements on Awards).</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $350</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Richard and Sophia Hungerford Undergraduate Travel Scholarships [T4508]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>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.</strong></td>
</tr>
<tr>
<td><strong>Donor(s):</strong> The Estate of Richard Hungerford</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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><strong>Amount:</strong> Several awards of varying amounts to a maximum of $1,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>University of Guelph Travel Scholarships [T0421]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>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.</strong></td>
</tr>
<tr>
<td><strong>Donor(s):</strong> University of Guelph</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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><strong>Amount:</strong> Several awards up to $1,500</td>
</tr>
</tbody>
</table>
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

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.

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’ 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 varsity 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 [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

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

2011-2012 Undergraduate Calendar
<table>
<thead>
<tr>
<th>Scholarship Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [E0627]</td>
</tr>
<tr>
<td>Established by Ernest Kendall, O.A.C. BSA 1932, this scholarship recognizes</td>
</tr>
<tr>
<td>students who are members of the varsity swim team and excel both academically</td>
</tr>
<tr>
<td>and in a rigorous athletic environment. The recipient will exhibit strong</td>
</tr>
<tr>
<td>academics and extraordinary athletic qualities. Coaches will nominate</td>
</tr>
<tr>
<td>students to the Athletics Awards Committee. Application is not required.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Ernest Kendall</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Entering student-athlete who is a member of the varsity</td>
</tr>
<tr>
<td>swim team and who has achieved a minimum 80% admission average.</td>
</tr>
<tr>
<td><strong>Amount:</strong> 2 awards of $1,350</td>
</tr>
</tbody>
</table>

| 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. Application is not required.                      |
| **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 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 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 entering      |
| 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) who has achieved 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):** Jack and Lillian 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                                        |

| Latifpour-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):** 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 assistantship)

### Lloyd Dorr Memorial Hockey Scholarship [E0708]

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

### 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

### 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 demonstrated 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 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

### Out-of-Provence Women’s Middle Distance Running Scholarship [E0635]

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  
**Qualification(s):** Entering student-athlete who is a member of the Women’s Middle Distance team, who has achieved a minimum 80% admission average and whose permanent residence is outside of Ontario  
**Amount:** 1 award of $1,500

### 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 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 two President’s Entrance Scholarships in his honour.
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 two President’s Entrance Scholarships in his honour.
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. Application is not required.

Amount: 8 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistance)

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

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 Ills [E0731]
Established in memory of Gordon Ills, 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 55.0% 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

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 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 [E0748]
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 2011, 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 Chancellors Scholarship, but can be held with all other entrance awards. ACCESS AWARDS.
Donor(s): Mr. Peter J. Devine
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 scholarships 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
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
IX. Scholarships and Other Awards, Bachelor of Landscape Architecture

**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 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
**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

**William Guy Walton Scholarship [E0671]**
As Mr. Walton owned a family farm where the Scarborough Town Centre now sits, he wanted to help young people from that area and encourage support for agriculture. Selection will be based on academic achievement, demonstrated leadership ability and involvement in the community. Financial need may also be considered. Apply by April 15 to Student Financial Services with a letter, not more than two pages, outlining demonstrated leadership, volunteer service in the community along with a completed Financial Need Assessment Form for Entrance Awards.

**Donor(s):** Estate of William Guy Walton
**Qualification(s):** Students from any Scarborough, Ontario high school entering any program offered by O.A.C.
**Amount:** 1 award of $5,000

**Entrance Bursaries**

**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
**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 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 $1,700
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 Admission Package. Payment of this award is conditional upon the recipient receiving funding through their provincial/territorial and/or federal student loan assistance program and in registration in a minimum of 1.5 credits.

Donor(s): University of Guelph
Qualification(s): Students entering any degree program with a minimum registration of 1.5 credits and demonstrated 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 a 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 Admission 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): 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

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

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 Athletics 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 any 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

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. 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
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 $300

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: 1 award of $300

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 $1,400

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 Apicultural 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 the previous academic year as a student-athlete.
Amount: 1 award 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 one or more of the following courses with a minimum grade of 75%: ENVH*1000 Environmental History, ENVH*3000 Nature Interpretation.
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%: ENVB*3000 Nature Interpretation, ENVH*3100 Organizational Communication.
Amount: 1 award of $1,000

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, 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 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 one or more of the following courses with a minimum grade of 75%: ENVH*1000 Environmental History, ENVH*3000 Nature Interpretation.
Amount: 1 award of $800

Durante Kreuk Scholarship [I0675]
Established by a Vancouver based firm with a broad range of experience in Landscape Architecture, Urban Open Space Design, and community design. Selection will be based on demonstrated high level of proficiency in design and implementation, with a focus on community design and demonstrated interest and potential to work in areas of community involvement and advocacy.
Donor(s): Durante Kreuk Ltd.
Qualification(s): Students registered in the B.L.A. program who have completed a minimum of 4.0 credits and students in the M.L.A. program who are entering the 3rd semester.
Amount: 1 award of $1,000
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elaine Scott-Thomas Track and Field Scholarship [I0706]</td>
<td>1 award of $1,500</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>Dave Scott-Thomas CBS BSc ‘88</td>
<td>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>
<td>Dr. Christian Baldauf</td>
</tr>
<tr>
<td>Embry Family Scholarship [I0736]</td>
<td>1 award of $3,500</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>Mr. John Embry</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>Ernest Kendall and Grace (Jowett) Kendall Varsity Swim Team Scholarship [I0627]</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>
<td>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.</td>
<td>University of Guelph</td>
</tr>
<tr>
<td>Football Endowment Fund (FEF) Scholarship [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>
<td>Students who have completed semester 6 in the Landscape Architecture program. Students with a minimum of 70% standing and outstanding design ability are eligible.</td>
<td>J. Vilhelm Stensson, Sheridan Nurseries Limited</td>
</tr>
<tr>
<td>Garden Club of Toronto Scholarship [I0109]</td>
<td>1 award of $1,000</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>The Garden Club of Toronto</td>
<td>Students who have completed semester 6 in the Landscape Architecture program. Students with a minimum of 70% standing and outstanding design ability are eligible.</td>
<td>J. Vilhelm Stensson, Sheridan Nurseries Limited</td>
</tr>
<tr>
<td>George A. Gray O.A.C. ‘51 Varsity Scholarships [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>
<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%, and is registered at the time of application.</td>
<td>International Student Organization (ISO)</td>
</tr>
<tr>
<td>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [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>
<td>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>
<td>International Student Organization (ISO)</td>
</tr>
<tr>
<td>globalization 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>Current member of the varsity swim team and has achieved a minimum 70% average in the previous academic year as a student-athlete.</td>
<td>The Garden Club of Toronto</td>
<td>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.</td>
<td>Ruth Kippax Stedman Estate</td>
</tr>
<tr>
<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>2 awards of $1,500</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>Various University of Guelph donors</td>
<td>Students who have completed semester 6 in the Landscape Architecture program. Students with a minimum of 70% standing and outstanding design ability are eligible.</td>
<td>J. Vilhelm Stensson, Sheridan Nurseries Limited</td>
</tr>
<tr>
<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>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>The Garden Club of Toronto</td>
<td>Students who have completed semester 6 in the Landscape Architecture program. Students with a minimum of 70% standing and outstanding design ability are eligible.</td>
<td>J. Vilhelm Stensson, Sheridan Nurseries Limited</td>
</tr>
<tr>
<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 the varsity team and has achieved a minimum 70% average in the previous academic year.</td>
<td>Mrs. George A. Gray</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%, and is registered at the time of application.</td>
<td>International Student Organization (ISO)</td>
</tr>
</tbody>
</table>

**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

**Helen Kippax Memorial Scholarship [I0657]**
- Selection will be based on level and 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.
- Donor(s): Ruth Kippax Stedman Estate
- Qualification(s): Students registered in the BLA or MLA program with a minimum 75% cumulative average and active in community service as well as involved in professional activities.
- Amount: 1 award of $800

**Howard B. Dunington-Grubb Scholarships [I0092]**
- Offered by the Sheridan Nurseries. Application is not required.
- Donor(s): J. Vilhelm Stensson, Sheridan Nurseries Limited
- Qualification(s): Students who have completed semester 6 in the Landscape Architecture program. Students with a minimum of 70% standing and outstanding design ability are eligible.
- 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. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University, two academic and professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students form. 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%, and is registered at the time of application.
- 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 at the University.

**Donor(s):** Jack and Lillian MacDonald

**Qualification(s):** Entering students coming from the Six Nations Polytechnic (SNP)

**Amount:** 1 award of $900

---

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 at least 10.0 and 12.0 credits with a minimum 70% average

**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 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

---

Kevin Durie Memorial Scholarship [I0653]

Established in memory of Kevin Durie, BA ’93, by his family and friends. The award will be made on the basis of outstanding service as a Residence Life staff member, 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. Apply by October 31st to Student Housing Services, Associate Director, Residence Life and Family Housing and include a letter of reference and personal statement.

**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

---

Landscaping Architecture Alumni Scholarships [I0329]

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 [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

---

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
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 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 Dorr Memorial Hockey Scholarship [I0708]
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

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 O.A.C. 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

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

Out-of-Province Women’s Middle Distance Running Scholarship [I0635]
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
Qualification(s): In-course student-athlete who is a current member of the Women’s Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario.
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
IX. Scholarships and Other Awards, Bachelor of Landscape Architecture

**Professional Staff Association Scholarship [I0628]**
This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 with a letter including 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

**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. Application is not 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]**
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 student 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 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 Bezeryed Memorial B.L.A. Design Scholarship [I0480]**
The scholarship has been provided in memory of the first female O.D.H. graduate, Vera Bezeryed. 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

Last Revision: March 15, 2014
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Victor Chanasyk Medal [C0265]</strong></td>
<td>This award is based on the recommendation of the faculty in the School of Landscape Architecture. Application is not required.</td>
</tr>
<tr>
<td><strong>W.C. Winegard Medal [C0311]</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>W.N. Vaughan Medal [C0299]</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>William L. McEwen OAC '43 Men’s Varsity Hockey Scholarships [I0703]</strong></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><strong>William P. Weber Football Scholarship [I0634]</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>3M Canada Scholarships [I0564]</strong></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><strong>Brian Kenneth Howard Memorial Scholarship [I4548]</strong></td>
<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><strong>City of Guelph 175th Anniversary Scholarship [I0515]</strong></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><strong>Eleanor Morgan &amp; Bill Archibald Scholarships [I4540]</strong></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><strong>Erin Demers Memorial Scholarship [I0406]</strong></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 May 15 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><strong>Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [14546]</strong></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 made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD.</td>
</tr>
<tr>
<td><strong>Euclid-Hitachi Scholarships [I4517]</strong></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>
</tbody>
</table>

**In-course Scholarships with Financial Need**

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>In-course Scholarships with Financial Need</strong></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><strong>3M Canada Scholarships [I0564]</strong></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><strong>Brian Kenneth Howard Memorial Scholarship [I4548]</strong></td>
<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><strong>Erin Demers Memorial Scholarship [I0406]</strong></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 May 15 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><strong>Ernest Kendall and Grace (Jowett) Kendall Varsity Basketball Team Scholarship [14546]</strong></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 made based on financial need and exhibited athletic and leadership qualities. Awarded in the Winter semester. ACCESS AWARD.</td>
</tr>
<tr>
<td><strong>Euclid-Hitachi Scholarships [I4517]</strong></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>
</tbody>
</table>

**TSS**

**OSO**
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graham Family Incentive Scholarship [I4506]</strong></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><strong>Donor(s):</strong> Harvey Graham O.A.C. ’39</td>
<td></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $5,000</td>
<td></td>
</tr>
<tr>
<td><strong>John Embry Family Scholarship [I4549]</strong></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 Awards 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><strong>Donor(s):</strong> Mr. John Embry</td>
<td></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Student-athletes who are members of an OUA varsity team with a minimum 70% program 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></td>
</tr>
<tr>
<td><strong>Amount:</strong> 2 awards of $3,500</td>
<td></td>
</tr>
<tr>
<td><strong>Nora Spence Memorial Scholarship [I4394]</strong></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 high academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Jane and George Spence</td>
<td></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> BSc student 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).</td>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,000</td>
<td></td>
</tr>
<tr>
<td><strong>R. Douglas and Kathleen Kennedy Scholarship in O.A.C. [I0547]</strong></td>
<td>Douglas (O.A.C. ’39) and Kathleen (MAC ’39) Kennedy met at a &quot;hop&quot; 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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Mrs. Kathleen Kennedy and the late Mr. R. Douglas Kennedy</td>
<td></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> This scholarship will be awarded to a student in O.A.C. with high academic achievement and demonstrated financial need.</td>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,000</td>
<td></td>
</tr>
<tr>
<td><strong>Residence Life Staff Scholarship [I0697]</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Student Housing Services</td>
<td></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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></td>
</tr>
<tr>
<td><strong>Amount:</strong> 2 awards of $500</td>
<td></td>
</tr>
<tr>
<td><strong>Returning Student Residence Scholarship [I0696]</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Student Housing Services</td>
<td></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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></td>
</tr>
<tr>
<td><strong>Amount:</strong> 3 awards of $500</td>
<td></td>
</tr>
<tr>
<td><strong>Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [E4515]</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Sheryl and David Kerr</td>
<td></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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).</td>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> various awards of up to $3,500</td>
<td></td>
</tr>
<tr>
<td><strong>Sheryl and David Kerr Women’s Varsity Ice Hockey Scholarship [I4515]</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Sheryl and David Kerr</td>
<td></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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).</td>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> various awards of up to $3,500</td>
<td></td>
</tr>
<tr>
<td><strong>Tara Lynn Giuliani Memorial Scholarship [I0375]</strong></td>
<td>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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> The Giuliani Family</td>
<td></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Most academically promising applicant with a demonstrated disability and having financial need.</td>
<td></td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $880</td>
<td></td>
</tr>
<tr>
<td><strong>Tony and Anne Arrell Scholarships [I0686]</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Tony and Anne Arrell, Burgundy Asset Management</td>
<td></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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><strong>Amount:</strong> 20 awards of $5,000</td>
<td></td>
</tr>
</tbody>
</table>
### 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, grandchild or great grandchild.  
**Amount:** 1 award 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  
**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  
**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

### William & Nona Heaslip Scholarship [I0589]
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  
**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

### 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. WIJ. Squirrell)  
**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  
**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:** 2 awards 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  
**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. 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 Donald P. Watson  
**Qualification(s):** Undergraduate students majoring in Horticultural Science, Landscape Architecture, Agronomy, Agricultural Science or Environmental Science, who have completed a minimum of 10.00 credits and who have demonstrated financial need. Recipients must have satisfactory academic standing in their last 10.00 credits. The scholarships will be awarded based on financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards ranging in value between $500 and $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  
**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 up to $2000

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.  
**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  
**Qualification(s):** Full-time students 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. 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  
**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 submitting 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

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

**Donor(s):** Faculty members and students in Landscape Architecture

**Qualification(s):** 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).

**Amount:** 2 awards 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

**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

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

**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

**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

**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

**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
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.  
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 $1,500

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  
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

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  
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  
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  
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

Last Revision: March 15, 2014
2011-2012 Undergraduate Calendar
**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

**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.

**Donor(s):** Canadian Friends of the Hebrew University in Jerusalem

**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 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 $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

**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 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. ACCCESS AWARD.

**Donor(s):** Friends and family of Jeffrey Brown  
**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 any exchange 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:** 1 award of $1,000

### 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. The scholarship will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

**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.

**ACCESS AWARD**

**Donor(s):** O.A.C. '47  
**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 [T0086]
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

### Ontario International Education Opportunity Scholarship (OIEOS) [T0614]
On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

**Donor(s):** Government of Ontario  
**Qualification(s):** Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.

**Amount:** approximately 71 awards of $2,500

### 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. ACCCESS AWARD.

**Donor(s):** Ontario University Registrars' Association (OURA)  
**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
<table>
<thead>
<tr>
<th>Scholarship Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard and Sophia Hungerford Undergraduate Travel Scholarships</td>
<td>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.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>The Estate of Richard Hungerford</td>
</tr>
<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>
<tr>
<td>Robb Travel Grants</td>
<td>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.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>The estate of Martha Robb</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>O.A.C. students who are attending another university on a Letter of Permission.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards of various amounts</td>
</tr>
<tr>
<td>Roderick Long International Travel Grant</td>
<td>Offered in memory of the late Roderick Long, O.A.C.'54. Up to eighty percent of the travel costs associate 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>Donor(s):</td>
<td>Mr. Roderick W. Long</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>O.A.C. undergraduate student who is studying outside of Canada on an approved program for one or more semesters</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards of $1,000</td>
</tr>
<tr>
<td>University of Guelph Travel Scholarships</td>
<td>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.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td>University of Guelph</td>
</tr>
<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>
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 awards subject to the availability of funds.

Entrance Scholarships

**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. 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’ 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

**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 [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

**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. 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. 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 Chancellor's 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

---

**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):** 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. ‘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

---

**Honours Chemistry Entrance Scholarship [E0130]**

This scholarship will be awarded to the student entering the Honours Chemistry program 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 an honours degree program offered by the Department of Chemistry.

**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 scholarships offered 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

## 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):** Jack and Lillian 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 recipients 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. Several of these awards will be offered on a competitive basis.

**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]
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
### IX. Scholarships and Other Awards, Bachelor of Science

#### 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. No application is necessary.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>The Moulton and Hutchinson Families</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</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>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $3,500</td>
</tr>
</tbody>
</table>

#### 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 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Ontario Institute Of Agrologists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students entering any OAC degree program with a minimum 80% admission average.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $1,000</td>
</tr>
</tbody>
</table>

#### Out-of-Province Women’s Middle Distance Running Scholarship [E0635]

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>Anonymous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Entering student-athlete who is a member of the Women’s Middle Distance team, who has achieved a minimum 80% admission average and whose permanent residence is outside of Ontario</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $1,500</td>
</tr>
</tbody>
</table>

#### 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. The recipient will be selected based on demonstrated leadership qualities and contributions to the University and recognition of economic and community 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>University of Guelph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students entering a degree program with a minimum 90% admission average who have made significant leadership contributions to their schools and/or communities.</td>
</tr>
<tr>
<td>Amount:</td>
<td>2 awards of $32,000 ($6,500 annually for 4 years of study plus one $6,000 stipend for summer research assistantship)</td>
</tr>
</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Provost, and Vice-President Academic of the University of Guelph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students entering any degree program who have been interviewed for consideration for a President's or Chancellor's Scholarship.</td>
</tr>
<tr>
<td>Amount:</td>
<td>several awards of $500</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 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>A number of President’s Scholarships have been named in honour of the following people and/or donors:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Ceci H. Franklin and Ingrid Franklin</td>
</tr>
<tr>
<td>Amount:</td>
<td>In honour of Ceci 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.</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Charles S. Humphrey</td>
</tr>
<tr>
<td>Amount:</td>
<td>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.</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Jack R. Longstaffe</td>
</tr>
<tr>
<td>Amount:</td>
<td>The University of Guelph has named one of these twelve prestige entrance awards in memory of Jack R. Longstaffe to recognize his financial contribution through his estate to the President's Entrance Scholarship program.</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Burton C. Matthews</td>
</tr>
<tr>
<td>Amount:</td>
<td>The University of Guelph has named one of these twelve prestige entrance awards in honour of Burton C. Matthews to recognize his insight and leadership in establishing the President's Entrance Scholarship program.</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Kathleen and Frederick Metcalf</td>
</tr>
<tr>
<td>Amount:</td>
<td>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).</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Rol-land Farms Limited</td>
</tr>
<tr>
<td>Amount:</td>
<td>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.</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td>Lillian Stewart Usher</td>
</tr>
<tr>
<td>Amount:</td>
<td>The University of Guelph has named one of these twelve prestige 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.</td>
</tr>
</tbody>
</table>

#### 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 Athletics Awards Committee. No application is necessary.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Various Donors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</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>
</tr>
<tr>
<td>Amount:</td>
<td>up to 10 $3500 each</td>
</tr>
</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mrs. Helen Quinn (O.A.C. ’35)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Entering student 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.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $1,500</td>
</tr>
</tbody>
</table>
IX. Scholarships and Other Awards, Bachelor of Science

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

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 the community, including extra-curricular activities and career aspirations. Preference may 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, extra-curricular 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

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 [E0748]
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

Last Revision: March 15, 2014 2011-2012 Undergraduate Calendar
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 Entrance Assessment 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 2011, 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 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

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 Knechtel 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 OTSS program, in memory of Gary Knechtel (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 Knechtel 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. One award of $6,000 paid in installments of $1,500 in semesters 1, 3, 5, and 7.

Donor(s): Toronto Section, Canadian Institute of Food Science and Technology

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 OTSS 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 Acknowledgment 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

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 $3,300

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. The winner is chosen from the list of alternates for the President’s Scholarships. President's Scholarship nominees 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. During the summer after the 3rd year, the scholars will propose, to Student Financial Services, an enrichment experiential undertaking related to the student's field of study; the grant application should include a detailed budget. A grant of up to $1,200 is available to support the undertaking, subject to continuing financial need and approval of the proposal by Student Financial Services. Upon completion, the student will write a report of the experience to Student Financial Services. ACCESS AWARD.

Donor(s): The Blount Foundation, Inc.

Qualification(s): Students who have been nominated for a President's Scholarship with demonstrated financial need and entering one of the following programs on an annual rotation: B.A. in 99/98, then B.A.Sc., B.Comm., B.Sc., B.Sc.(Agr.), B.ENG., B.Sc.(Env.). Recipients must maintain a B+ average or higher, continue to demonstrate financial need and be full-time students in order to qualify for subsequent installments. 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)
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 Acknowledgment 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

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 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

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 activities and community volunteer work and make a personal mark on the University. AWARD

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. The Department of Molecular and Cellular Biology will award an amount up to $1,000 to a student entering the Microbiology major. The amounts are payable in one payment. The scholarship is contingent upon the student completing the financial need assessment form (N.A.F.) application, and must have a minimum 80% admission average and a record of leadership in community activities and a minimum 70% grade average in the first two years of study. The scholarship is renewable for up to four years of study. AWARD

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

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

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.Com. student, 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

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.Com. 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

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. 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

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

Last Revision: March 15, 2014
William Guy Walton Scholarship [E0671]
As Mr. Walton owned a family farm where the Scarborough Town Centre now sits, he wanted to help young people from that area and encourage support for agriculture. Selection will be based on academic achievement, demonstrated leadership ability and involvement in the community. Financial need may also be considered. Apply by April 15 to Student Financial Services with a letter, not more than two pages, outlining demonstrated leadership, volunteer service in the community along with a completed Financial Need Assessment Form for Entrance Awards.

| Donor(s): | Estate of William Guy Walton |
| Qualification(s): | Students from any Scarborough, Ontario high school entering any program offered by O.A.C. |
| Amount: | 1 award of $5,000 |

Entrance Bursaries

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 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 |
| 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 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 $1,700 |

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

Al 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 |

Alex Peepre Memorial Scholarship [H0232]
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 |
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-experiential learning opportunities in the following academic year. 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-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-experiential community-based experiential learning in the following academic year.

Amount: 1 award of $1,000

Analytical Biochemistry Scholarship [I0281]

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 Cellular 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 [I0465]

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 [I0754]

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 [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

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

Bob McCann Memorial Prize [C0314]

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 [I0301]

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 [C0402]

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 [I0450]

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: March 15, 2014
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bryant Family Research Scholarship [I0537]</td>
<td>1 award of $2,000</td>
<td>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.</td>
<td>Dr. W. Keith Bryant</td>
</tr>
<tr>
<td>The Guelph Chapter of the Canadian Federation of University Women Scholarship</td>
<td>1 award of $1,000</td>
<td>Full-time students who have completed the B.Sc. Degree program in Chemical Institute of Canada</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 awards of $250</td>
<td>Student who has completed a minimum of 10.0 credits with a minimum 75% average in the last two full-time semesters.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CBS Student Council Extracurricular Achievement Scholarship [I0745]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certified General Accountants of Ontario Prize for Excellence [C0025]</td>
<td>Awarded to the graduating student with the highest average in the three accounting courses listed. Application is not required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chair’s Prize in Human Health and Nutritional Sciences [C0555]</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charles McGowan Memorial Prize [C0187]</td>
<td>Established in memory of the late Lieutenant Charles McGowan. Application is not required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Institute of Canada (CIC) Silver Medal in Chemistry [I0646]</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Institute of Canada Prize (CIC) Silver Medal in Biochemistry [I0056]</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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

IX. Scholarships and Other Awards, Bachelor of Science

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 Engineering Science area.
Amount: 1 award of $250, 1 Commemorative plaque

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

Copernicus Scholarship in Physics [I0081]
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

CSAHS Student Volunteer Scholarship [I0482]
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.

Donor(s): CSAHS Student Volunteer Scholarship
Qualification(s): Students who have completed the courses 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

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/buffalo 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 outlined demonstrating 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 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. 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 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*4040). 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*3090) 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 $800

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 Wineyard 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

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

Ellen Nisen Memorial Scholarship [I0047]
Apply to the Director for International Development Studies with a transcript, cv/resume, and a cover letter outlining how past experiences demonstrate a commitment to social change by January 30th. Preference will be given to a student registered in a Graduate program at the University of Guelph.

**Donor(s):** The Friends of Ellen Nisen  
**Qualification(s):** Registered academically outstanding female students from developing countries who have demonstrated a commitment to social change.

**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

Fisher Scientific Scholarship in Biochemistry [I0600]
Selection will be based on high academic achievement. The recipient shall not concurrently hold another award of $1,000 or more in value. A student may be considered for this award only once. Application is not required.

**Donor(s):** Fisher Scientific  
**Qualification(s):** 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.

**Amount:** 1 award of $500

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

Francis E. Chase Memorial Scholarship [I0055]
Awarded in the Fall semester. The award will be made on the basis of academic standing, leadership in extracurricular activities. Apply to Student Financial Services by May 15.

**Donor(s):** Mrs. Jane M. Chase  
**Qualification(s):** Student who has completed semesters 4 or 6 of the B.Sc. program majoring in Food Science.

**Amount:** 1 award of $450

Frank and Gertraude Hurnik Scholarship [I0455]
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 social welfare or agricultural ethics may apply. A minimum of an "A" standing for in the last two semesters is required.

**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

Fred Ramprashad Scholarship [I0474]
Established through the direction of the College of Biological Science alumni to honour Professor Fred Ramprashad for his commitment to the college and to the athletic programs at Guelph. The award will recognize the student that best demonstrates the combination of academic excellence and participation in intercollegiate athletics. Application is not required.

**Donor(s):** The C.B.S. Alumni, 'Annual Donation'  
**Qualification(s):** 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).

**Amount:** 1 award of $1,000 , and a Medal

Gaskin Medal in Marine and Freshwater Biology [C0432]
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.

**Donor(s):** Established through the direction of the College of Biological Science alumni to honour Professor Fred Ramprashad for his commitment to the college and to the athletic programs at Guelph. The award will recognize the student that best demonstrates the combination of academic excellence and participation in intercollegiate athletics. Application is not required.

**Qualification(s):** 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).

**Amount:** 1 award of $1,000 , and a Medal

George A. Farley Scholarship [I0099]
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.

**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]

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

George I. Christie Prize [C0347]

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.

Donor(s): Trust Fund (late President George I. Christie)
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.
Amount: 1 award of $750

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

GIBCO/BRL Microbiology Research Excellence Prize [C0297]

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.

Donor(s): Department of Molecular and Cellular Biology and the GIBCO/BRL Enzyme Freezer Program
Qualification(s): Undergraduate student who has produced and presented the best all round research project in MCB*4500 and/or MCB*4510 Research Project I and/or II in Microbiology.
Amount: 1 award of $500

GlobalTox Scholarship for Academic Excellence [10135]

Application is not required.

Donor(s): GlobalTox International Consultants Inc.
Qualification(s): Student who is registered in the honours toxicology program and has the highest grade in Principles of Toxicology (TOX*2000).
Amount: 1 award of $500

Gonder Family Centre for Students with Disabilities Volunteer Scholarship [10563]

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

Gordon Ashton Statistics Scholarship [10543]

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.

Donor(s): Department of Mathematics and Statistics and (retired) Professor Dixon More, C.P.E.S
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).
Amount: 1 award of $750

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

Greig Muir Memorial Scholarship [10196]

Preference will be given to students entering semester 3 who are from the Province of Quebec. If there is no candidate in semester 3 from the Province of Quebec a candidate will be sought from semester 5. Apply to the O.A.C. Awards Office by May 15 with a letter describing extracurricular activities.

Donor(s): The Jean Rich Foundation
Qualification(s): B.Sc. Food Science students on the basis of academic standing and participation in extracurricular activities.
Amount: 1 award of $2,000

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 Soap Company Scholarship [10288]

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 a 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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H.O. Shackleton Memorial Prize</td>
<td>C0255</td>
<td>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.</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>Student graduating in the B.Sc. Microbiology (major or minor) and planning to pursue graduate studies in Microbiology at a recognized University.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Highdale Farms Scholarship</td>
<td>I0348</td>
<td>Apply to Student Financial Services by May 15 with a letter demonstrating leadership ability as evidenced by extra-curricular involvements.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Arthur Spoerri</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>2 awards of $2,500</td>
</tr>
<tr>
<td>HK/IB Alumni Association Graduation Prize</td>
<td>C0452</td>
<td>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/IB Symposium, College Royal etc.). Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>The HK/IB Alumni Association</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>Students graduating with a BSc major in Human Kinetics in the June or previous February or October convocations, with at least a ‘B’ cumulative average.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of a Medal and an alumni life membership</td>
</tr>
<tr>
<td>Honours Biochemistry Scholarship</td>
<td>I0128</td>
<td>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.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Department of Molecular and Cellular Biology</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>2 awards of $500</td>
</tr>
<tr>
<td>Honours Chemistry Scholarships</td>
<td>I0129</td>
<td>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.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Faculty of the Department of Chemistry</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>BSc.(Tech) or BSc. students registered in an honours major offered by the Department of Chemistry who have completed a minimum of 10.0 credits including 3.0 credits from CHEM courses.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>3 awards of $500</td>
</tr>
<tr>
<td>Hugh Brannon Memorial Scholarship</td>
<td>I0033</td>
<td>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.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Friends of Dr. Hugh Brannon</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>Student registered in semester level 8 in B.Sc. Nutritional and Nutraceutical Sciences major in the winter semester.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Hung-So Chow Yuen Leadership Scholarship</td>
<td>I4400</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. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University, two academic and/or professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students. This can only be held once by the student.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Hypercube Inc.</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></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%, and is registered at the time of application.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Isabella Anderson Conway Scholarship</td>
<td>I0286</td>
<td>Awarded to the student who has achieved the highest combined average in the courses NUTR<em>3210 Fundamentals of Nutrition and BIOL</em>2580 Introductory Biochemistry. Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Mr. Charles Abbott Conway</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of $500</td>
</tr>
<tr>
<td>J.B. Reynolds Graduation Medal in Physics</td>
<td>C0399</td>
<td>This medal is awarded to a graduating student in the Spring semester or the previous Fall or Winter Semesters. Application is not required.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>Department of Physics</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of a Medal</td>
</tr>
<tr>
<td>J.D. Cunningham Industrial Scholarship</td>
<td>I0287</td>
<td>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.</td>
</tr>
<tr>
<td>Donor(s):</td>
<td></td>
<td>J.D. Cunningham</td>
</tr>
<tr>
<td>Qualification(s):</td>
<td></td>
<td>Students who have completed semester 6 in Food Science with a minimum cumulative average of 75%.</td>
</tr>
<tr>
<td>Amount:</td>
<td></td>
<td>1 award of $900</td>
</tr>
</tbody>
</table>
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 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

J.M. Christie Prize [C0213]
Application is not required.
Donor(s): Dr. G.I. Christie
Qualification(s): Graduating student in the Food Science major of the B.Sc. program with the highest academic standing throughout eight semester levels.
Amount: 1 award of a plaque

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

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): Jack and Lillian MacDonald
Qualification(s): Entering students coming from the Six Nations Polytechnic (SNP).
Amount: 1 award of $900

Jack K. Barclay Physiology Scholarship [I0491]
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.
Donor(s): Friends and family of J.K. Barclay
Qualification(s): Full-time undergraduate student enrolled in a major within the Department of Human Health and Nutritional Sciences, who has completed HK*3940, Human Physiology with a minimum 70% average and who has made leadership contributions to the University or the outside community.
Amount: 1 award of $500

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

James L. Mottin Prize for Academic and Extracurricular Excellence [C0344]
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.
Donor(s): The Department of Psychology
Qualification(s): Student must be enrolled in the B.A. Honours program or the honours specialization in the B.Sc. program majoring in Psychology. The recipient will be selected on the basis of high academic achievement and extracurricular involvement.
Amount: 1 award of $200

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 two letters of reference where one demonstrates volunteer experience with the elderly and the other demonstrates extracurricular activities.
Donor(s): Mr. Robert N. Carter and Family
Qualification(s): Students majoring in Gerontology or Adult Development, Families & Well-Being in the BASc. program who have completed at least 10.0 credits and have a minimum 70% cumulative average.
Amount: 1 award of $1,000

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 to Student Financial Services by May 15 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 [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 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
IX. Scholarships and Other Awards, Bachelor of Science

John T. Powell Scholarship [I0237]
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.

Donor(s): Human Kinetics Alumni Association
Qualification(s): Full-time students enrolled in any honours program within the Department of H.H.N.S. with a minimum 10.0 credits and a minimum cumulative average of 70% and has participated in the H.H.N.S. Symposium and other on-campus extra-curricular activities.
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

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 BHS’ ’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. The award will be made on the basis of outstanding service as a Residence Life staff member, 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. Apply by October 31st to Student Housing Services, Associate Director, Residence Life and Family Housing and include a letter of reference and personal statement.

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 LGTB 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 or by 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 Prokicpak Chemistry Scholarship [I0528]
This scholarship was established by Professor Gordon L. Lange, Professor Joe M. Prokicpak, friends and colleagues. Professors Gordon L. Lange and Joe M. Prokicpak 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. Prokicpak 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 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

Qualifier(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

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

Qualifier(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 above 80% in MATH*1200 and MATH*1210. A student may be considered for this award only once.

Amount: 1 award of $500

Leonard Connolly Exchange Student Scholarship [I0446]

Established by students, faculty, 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

Qualifier(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

Qualifier(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]

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

Qualifier(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

Qualifier(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

Qualifier(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

Qualifier(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

Qualifier(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

Qualifier(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)

Qualifier(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

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

Qualifier(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 Halidarn 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

Qualifier(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
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

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 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 [10223]

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

Out-of-Provience Women's Middle Distance Running Scholarship [I0635]

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

Qualification(s): In-course student-athlete who is a current member of the Women's Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario.

Amount: 1 award of $1,500

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

Pharmacia & Upjohn Scholarship in Microbiology [I0295]

Offered in the Winter Semester by the Pharmacia Company of Canada. Not tenable with the Shutt Memorial Scholarship. Application is not required.

Donor(s): Pharmacia & Upjohn International Inc.

Qualification(s): Student enrolled in the B.Sc. Microbiology major who has completed the 7th semester 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 with a letter including 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 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.

Amount: 1 award of $200

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

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. honours program or the honours specialization in the B.Sc. program majoring in Psychology who has completed PSYC*4870 and PSYC*4880 and who submits the best Psychology honours thesis in the previous Fall, Summer or Winter semesters.

Amount: 1 award of $200

Last Revision: March 15, 2014
IX. Scholarships and Other Awards, Bachelor of Science

Robert Orr Lawson Third Year Microbiology In-course Scholarship [I0499]
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 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.

Donor(s):  Department of Molecular and Cellular Biology and the estate of the late Robert Orr Lawson

Qualification(s):  Student with a minimum 80% average in the B.Sc. program at the completion of the first four semesters of full-time study (10 credits) who has declared a Microbiology major and has the highest cumulative average, providing that the average grade is 80% or greater. This scholarship may be held with any other awards, except the Microbiology Entrance Bursary, or any of the other Robert Orr Lawson Microbiology Scholarships.

Amount:  1 award of $2,000

Ronald Ko Scholarship [I0151]
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.

Donor(s):  Dr. Ronald Ko, Department of Integrative Biology, University of Hong Kong

Qualification(s):  Student with the highest grade in the Integrative Biology of Invertebrates course ZOO*3700 in the Department of Integrative Biology, currently offered in the Fall semester.

Amount:  1 award of $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

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

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:  1 award 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 Biology major or the Plant Science major of the B.Sc. program with the highest cumulative average.

Amount:  1 award of $100, 1 Plaque

Robert Orr Lawson Second Year Microbiology In-course Scholarship [I0498]
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 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.

Donor(s):  Department of Molecular and Cellular Biology and the estate of the late Robert Orr Lawson

Qualification(s):  Student enrolled in the BA Honours program or the honours specialization in the BSc. program majoring in Psychology, having the highest cumulative specialization average after completing at least 15.0 course credits, including those prerequisite courses associated with the honours theses PSYC*3371 and PSYC*3372.

Amount:  1 award of $200

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, students and other affiliates 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 $500

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 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 $900

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 has completed a minimum of 9.0 credits up to a maximum of 19.75 credits enrolled as a physics major. The recipient will be selected on the basis of high cumulative specialization average over 80%.

Amount:  1 award of $900

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 up to a maximum of 14.0 credits in a program offered by the School of Environmental Sciences.

Amount:  2 awards of $750

Robert Orr Lawson Senior Honours Scholarship [I0342]
Provided by the Department of Psychology. Award may be held once only. Application is not required.

Donor(s):  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 $200

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

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:  1 award 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 Biology major or the Plant Science major of the B.Sc. program with the highest cumulative average.

Amount:  1 award of $100, 1 Plaque
<table>
<thead>
<tr>
<th>Scholarship</th>
<th>(Stipend)</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>Shur-Gain</td>
</tr>
<tr>
<td><strong>Shur-Gain, Nutreco Canada Inc. Scholarship [I0307]</strong></td>
<td>1 award of $750</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Shur-Gain</td>
<td>1 award of $750</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Students registered in Animal Science or Animal Biology majors who have completed between 8.0 and 11.0 credits.</td>
<td>1 award of $750</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $750</td>
<td>1 award of $750</td>
</tr>
<tr>
<td>In honour of Professor D.B. Shutt and Dr. E.T. Shutt. Not tenable with the Upjohn Award. Application is not required.</td>
<td>Greta M. Shutt, B.Sc. (H.E.)</td>
</tr>
<tr>
<td><strong>Shutt Memorial Scholarship [I0257]</strong></td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Bev and Darlene Wilken</td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $500</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>The scholarship will be awarded at summer convocation. Application is not required.</td>
<td>Society of Chemical Industry</td>
</tr>
<tr>
<td><strong>Society of Chemical Industries Prizes in Biochemistry [C0478]</strong></td>
<td>1 award of an engraved plaque and a 1 year subscription to SCT's magazine</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Society of Chemical Industry</td>
<td>1 award of an engraved plaque and a 1 year subscription to SCT's magazine</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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</td>
<td>1 award of an engraved plaque and a 1 year subscription to SCT's magazine</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $500</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>The scholarship will be awarded at summer convocation. Application is not required.</td>
<td>Society of Chemical Industry</td>
</tr>
<tr>
<td><strong>Society of Chemical Industry Prizes in Chemistry/Applied Pharmaceutical Chemistry [C0333]</strong></td>
<td>2 awards of an Engraved plaque</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Society of Chemical Industry</td>
<td>2 awards of an Engraved plaque</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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. honours major Chemistry and the B.Sc.(Tech.) honours major Applied Pharmaceutical Chemistry.</td>
<td>2 awards of an Engraved plaque</td>
</tr>
<tr>
<td><strong>Amount:</strong> 2 awards of an Engraved plaque</td>
<td>2 awards of an Engraved plaque</td>
</tr>
<tr>
<td>The scholarship will be awarded at summer convocation. Application is not required.</td>
<td>Society of Management Accountants, Grand River Chapter</td>
</tr>
<tr>
<td><strong>Society of Management Accountants of Ontario Scholarship [C0268]</strong></td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Society of Management Accountants, Grand River Chapter</td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $500</td>
<td>1 award of $500</td>
</tr>
<tr>
<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>Speed River Physiotherapy</td>
</tr>
<tr>
<td><strong>Speed River Physiotherapy Track and Field Scholarship [I0704]</strong></td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Speed River Physiotherapy</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,500</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>The scholarship will be awarded at summer convocation. Application is not required.</td>
<td>Ted Newton Memorial Scholarship [I0198]</td>
</tr>
<tr>
<td><strong>Ted Newton Memorial Scholarship [I0198]</strong></td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Family, friends and colleagues of Dr. T.D. (Ted) Newton</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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.</td>
<td>BSc students registered 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>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,500</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>The scholarship will be awarded to the student with the highest mark in the course. In the event of a tie, the scholarship will be awarded to the student with the highest grade in the final examination for the course. No application is necessary.</td>
<td>Thermodynamics and Kinetics Scholarship [I0743]</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $500</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>The scholarship will be awarded 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.</td>
<td>Tatjana Schulz Vanegas Memorial Scholarship [I0746]</td>
</tr>
<tr>
<td><strong>Tatjana Schulz Vanegas Memorial Scholarship [I0746]</strong></td>
<td>1 award of $3,500</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Bev and Darlene Wilken</td>
<td>1 award of $3,500</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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>
<td>Tatjana Schulz Vanegas Memorial Scholarship [I0746]</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,000</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>The scholarship will be awarded at summer convocation. Application is not required.</td>
<td>Thomas H. Peters Scholarship [I0233]</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $250</td>
<td>1 award of $250</td>
</tr>
<tr>
<td>The scholarship will be awarded to the student with the highest mark in the course. In the event of a tie, the scholarship will be awarded to the student with the highest grade in the final examination for the course. No application is necessary.</td>
<td>Thomas H. Peters Scholarship [I0233]</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Student in any academic program of the University who has completed courses in Land Reclamation (e.g. CROP<em>2280, SOIL</em>2320), 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><strong>Amount:</strong> 1 award of $250</td>
<td>1 award of $250</td>
</tr>
</tbody>
</table>
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):** Student who is selected shall be a non-graduating student in the Faculty of Health Sciences (excluding veterinary medicine) who has met the academic requirements of the discipline in which the student is enrolled.

**Amount:** Numerous awards ranging in value from $1,000 to $3,500.

Tony Anthony Prize in Comparative Vertebrate Anatomy [I0282]

In memory of the late E.H. Anthony, Professor in the former Department of Zoology, and in memory of his wife, Mrs. E. Anthony, one award will be made for each semester in which the course is offered. Application is not required.

**Donor(s):** Tony Anthony Memorial Fund

**Qualification(s):** Student who achieves the highest grade in course ZOO*2090, Vertebrate Structure and Function.

**Amount:** 1 award of $125

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 the student's home community as well as qualities of leadership, ambition and initiative. Evidence of community involvement in and commitment to student life will be encouraged. Application is not required.

**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 program in the Winter semester with a minimum 70% cumulative average.

**Amount:** 1 award of $1,000

United Steelworkers 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 one-page summary demonstrating leadership abilities as evidenced through extracurricular activities. Awarded in the Fall semester.

**Donor(s):** Various doners 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 extracurricular activities. 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. II. Boyd Scholarship [I0335]

Established by the friends of Professor W.H. Boyd. Application is not required.

**Donor(s):** Douglas L. Woolley, M.D. & B.Sc.(HLK) Alumni Association

**Qualification(s):** Student enrolled in the Human Kinetics major who has completed Human Anatomy and who has made leadership contributions to the University or outside community.

**Amount:** 1 award of $1,000

W. Harold Minshall Scholarship [I0451]

Provided by Dr. W.H. Minshall (O.A.C.'33). Apply to Student Financial Services by May 15 with a letter indicating interest and aptitude in crop protection, particularly in weed biology and management and listing extracurricular involvements. Awarded on the basis of academic standing in the relevant courses and participation in extracurricular activities.

**Donor(s):** O.A.C. Alumni Foundation on behalf of Dr. W.H. Minshall

**Qualification(s):** A student 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. 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

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

Last Revision: March 15, 2014
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 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

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 once only.

**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 once only.

**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 7 (i.e. having completed a minimum of 15.00 credits) with a demonstrated financial need and high academic achievement.

**Amount:** Various award of up to $3,000

Alf and Mary Hales Undergraduate Scholarship in Food Science [14510]
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 (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

**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 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

**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. This award may be held only once. ACCESS AWARD

**Donor(s):** Alumni and friends of C.B.S.

**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

**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 $750

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

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
<th>Recommendation(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Earl B. MacNaughton C.P.E.S. ACCESS Scholarships [I4172]</strong></td>
<td>2 awards of $1,000</td>
<td>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).</td>
<td>Earl B. MacNaughton</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Gordon Ashton Scholarship [I4535]</strong></td>
<td>1 award of $500</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>Harvey Graham O.A.C. ’39</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Graham, Fraser and Trevor Bosch Scholarships in Chemistry [I4288]</strong></td>
<td>1 award of $5,000</td>
<td>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).</td>
<td>Rolf C. Hagen</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Hagen Undergraduate Scholarship [I4525]</strong></td>
<td>2 awards of $1,200</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 OSOTF award (see General Statements on Awards).</td>
<td>Rolf C. Hagen</td>
<td>ACCESS AWARD</td>
</tr>
<tr>
<td><strong>Euclid-Hitachi Scholarships [I4517]</strong></td>
<td>2 awards of $1,500</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>Euclid-Hitachi of Canada Ltd.</td>
<td>ACCESS AWARD</td>
</tr>
</tbody>
</table>
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
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
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
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

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
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 high academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD.

Donor(s): Jane and George Spence
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
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]

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 $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
Scottish Studies Foundation Scholarship [I4541]

Provided with the assistance of the Ontario government's OSOTF program. The recipient will be selected on the basis of grades and achievements 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

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 OSOTF award (see General Statements on Awards).

Amount: 1 award of $4,000

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

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

Tony and Anne Arrell Scholarships [I0686]

Tony Arrell, OAC Bsc (Agri) '67 and Anne Arrell, MAC BHISC '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 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

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.

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 $1,000

Stephen Safe Scholarships in Toxicology [I4528]

Established by Wellington Laboratories, with the assistance of the Ontario government’s OSOTF program to honour the achievements of Prof. Stephen Safe, a former faculty member at the University of Guelph. One letter of support should be provided from a faculty member who is not a member of the Selection Committee. Apply, including a reference letter and a completed Financial Need Assessment Form (N.A.F.), to Student Financial Services by October 7. Previous recipients of the award may reapply in subsequent years, but preference will be given to those applicants who have not previously held this award. ACCESS AWARD.

Donor(s): Mr. Brock Chittin

Qualification(s): 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 OSOTF award (see General Statements on Awards).

Amount: 2 awards of $1,000

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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services.

Donor(s): The Giuliani Family

Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need.

Amount: 1 award of $880
**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 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  
**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 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  
**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 [I0360]**

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.S.c., 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

**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.  
**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  
**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  
**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

**Ceri Rich Bursary [I3055]**

Established to assist students with an academic interest in animal nutrition. Apply by October 7 with a completed Financial Need Assessment Form (N.A.F.) Form and a letter indicating interest in animal nutrition.

**Donor(s):** Jean Rich Foundation  
**Qualification(s):** Students registered in a B.Sc honours program who have completed a minimum of 10.0 credits where a minimum of 2.0 credits were earned in nutrition courses.

**Amount:** 1 6000 (payable over 2 semesters)

**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  
**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. Squireell  
**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  
**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:** 2 awards of $500

### Credit Valley Conservation Authority Foundation Bursary [I3507]

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.(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

### 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  
**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  
**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 up to $2000

### Food Science Co-op Bursaries [I3509]

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

**Donor(s):** Knechtel Scholarship Fund and the Toronto section of Canadian Institute of Food Science Technology  
**Qualification(s):** 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).

**Amount:** 2 awards of $1,500

### 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  
**Qualification(s):** All undergraduate and graduate 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

### Gordon B. Henry Bursaries in Food Science [I3540]

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

**Donor(s):** Gordon B. Henry, O.A.C. ‘34  
**Qualification(s):** 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).

**Amount:** Several awards of $1,000

### 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.  
**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 [I3601]

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 OSOTF 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 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 a minimum registration of 1.50 course credits. 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. 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

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 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):** Mr. T.K.C. Karr, O.A.C. ‘32

**Qualification(s):** O.A.C. students with demonstrated financial need.

**Amount:** Several varies

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

**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 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

Joan Weatherly Memorial Bursary [I3065]

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 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
L. George and Margaret Baker Bursary [13052]

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 [12856]

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

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 of $5,000

Leroux Bursaries [13535]

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

Qualification(s): O.A.C. students in 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

Marie Hardacre Bursary [13548]

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

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 [13524]

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

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 [13514]

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

Qualification(s): O.A.C. students in B.Sc.(Agri) 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

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 classmate 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

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

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

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

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  
**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.F. 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 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 [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  
**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 [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. ACCESS AWARD.

**Donor(s):** Family and Friends of Ron Scriver  
**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 OITSS 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  
**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

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  
**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  
**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 of awards of $500, Several of 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  
**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 of awards 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.

Donor(s): A.W. Archibald, O.A.C. '33
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 [T0658]

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.

**Donor(s):**
Canadian Friends of the Hebrew University in Jerusalem

**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 O.A.C ’59 Experiential Learning Travel Grant [T0702]

The Class of O.A.C ‘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 related travel 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

### 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 has been established by E.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. E.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 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 Genetics, 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 awards of $2,000

### J. Ross Ceners 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
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 Miyanishi International Travel Grant [T0742]
Established by Dr. Kiyoko Miyanishi, 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 Miyanishi 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 contribution to the program in the department. One or two awards totalling $1,000.

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 $1,000

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
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 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 only once.

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 [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
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

Ontario International Education Opportunity Scholarship (OIEOS) [T0614]
On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

Donor(s): Government of Ontario
Qualification(s): Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.
Amount: approximately 71 awards of $2,500
### 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)

**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 have at least a 70% cumulative average in the last 2 semesters of full-time equivalent study. Students must meet the government-mandated terms for receipt of an OSOTF 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 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. Students may not receive this award more than two times during their undergraduate studies. ACCESS AWARD.

**Donor(s):** The Estate of Richard Hungerford

**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/Summer. Students must only select one program for application. 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

**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 Frances, 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 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.(Agri.) Alfred Mclnroy "Mac" Cuddy Memorial Scholarship [E0669]**

Established by the Estate of Alfred Mclnroy (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 Mclnroy 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

---

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 athletic 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 [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
IX. Scholarships and Other Awards, Bachelor of Science in Agriculture

Elaine Scott-Thomas Track and Field Scholarship [E0706]
The recipient will be selected based on demonstrated leadership qualities and contributions to the team. Head Coaches will nominate students to the Athletics 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 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

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 Chancellor's 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 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.
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): Jack and Lillian MacDonald
Qualification(s): Entering students coming from the Six Nations Polytechnic (SNP).
Amount: 1 award of $900
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>James MacMillan Memorial Scholarship [I0494]</td>
<td>Austin Conway</td>
<td>Enrolled in 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>
<td>1 award of $2,500</td>
</tr>
<tr>
<td>Kelly Bertrand Cross Country Scholarship [E0684]</td>
<td>Kelly Bertrand</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>
<td>1 award of $2,000</td>
</tr>
<tr>
<td>Larry Pearson Men’s Volleyball Athletic Scholarships [E0618]</td>
<td>Larry Pearson</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>
<td>several awards up to $3,500</td>
</tr>
<tr>
<td>Latifpoor-Keparouitis Family Varsity Swim Team Scholarship [E0732]</td>
<td>Maryam Latifpoor-Keparouitis</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>
<td>1 award of $1,200</td>
</tr>
<tr>
<td>Lincoln Alexander Scholarships [E0689]</td>
<td>Many Donors</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>
<td>2 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>Lloyd Dorr Memorial Hockey Scholarship [E0708]</td>
<td>Family and Friends of the late Lloyd Dorr</td>
<td>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.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>McArthur-Humphries Scholarship [E0183]</td>
<td>Wilhelmmina McArthur-Humphries Trust Fund</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>
<td>12 awards of $1,000</td>
</tr>
<tr>
<td>Men’s Basketball Scholarships [E0638]</td>
<td>Anonymous (Alumnus)</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>
<td>4 awards of $2,500</td>
</tr>
<tr>
<td>Ontario Institute of Agrologists’ Mike Jenkinson Memorial Scholarship [E0738]</td>
<td>Ontario Institute Of Agrologists</td>
<td>Established to honour Mike Jenkinson (OAC BSA 1965) 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 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.</td>
<td>1 award of $3,500</td>
</tr>
<tr>
<td>Out-of-Provincial Women’s Middle Distance Running Scholarship [E0635]</td>
<td>Anonymous</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>
<td>1 award of $1,500</td>
</tr>
</tbody>
</table>
### 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): | 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 |

### 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) |

### 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 achievement, 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 |

### 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

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 the University of 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 [E0429]

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

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 his 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 [E0748]

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.  
**Amount:** 1 award of $1,000

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

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 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 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 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 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
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: 1 award of $1,000

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): 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.

Donor(s): Mr. John Embry
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. The winner is chosen from the list of alternates for the President's Scholarships. President's Scholarship nominees 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. During the summer after the 3rd year, the scholars will propose, to Student Financial Services, an enrichment experiential undertaking related to the student's field of study; the grant application should include a detailed budget. A grant of up to $1,200 is available to support the undertaking, subject to continuing financial need and approval of the proposal by Student Financial Services. Upon completion, the student will write a report of the experience to Student Financial Services, ACCESS AWARD.

Donor(s): The Blount Foundation, Inc.
Qualification(s): Students who have been nominated for a President's Scholarship with demonstrated financial need and entering one of the following programs on an annual rotation: B.A. in 98/99, then B.A.Sc., B.Comm., B.B.S., B.Sc.(Agr.), B.ENG., B.Sc.(Env.). Recipients must maintain a B+ average or higher, continue to demonstrate financial need and be full-time students in order to qualify for subsequent installments. 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)

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.

Donor(s): Family, friends and colleagues of Norman Gibbins
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 Chancellor's 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
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
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 OTSSS 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
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 OTSSS award (see General Statements on Awards).

Amount: 1 award of $1,350

William Guy Walton Scholarship [E0671]

As Mr. Walton owned a family farm where the Scarborough Town Centre now sits, he wanted to help young people from that area and encourage support for agriculture. Selection will be based on academic achievement, demonstrated leadership ability and involvement in the community. Financial need may also be considered. Apply by April 15 to Student Financial Services with a letter, not more than two pages, outlining demonstrated leadership, volunteer service in the community along with a completed Financial Need Assessment Form for Entrance Awards.

Donor(s): Estate of William Guy Walton
Qualification(s): Students from any Scarborough, Ontario high school entering any program offered by O.A.C.

Amount: 1 award of $5,000

IX. Scholarships and Other Awards, Bachelor of Science in Agriculture

Entry Bursaries

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 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

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
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 (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). ACCESS AWARD

Donor(s): The family and friends of R. Gordon Bennett, O.A.C.’43
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 who comes from a farming 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 $1,700

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) 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

#### Al 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. Numerous awards ranging in value from $750 to $3,500

#### Amber (Gibbons) Underwood Communications Scholarship [10207]

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. The recipient will be selected on the basis of their academic performance in one or more of the courses dealing with communications: EDRD*3040 Communication Process, EDRD*3050 International Communication and EDRD*4060 Agricultural Communication. Application is not required.

**Donor(s):** The Gibbons and Underwood families and the Class of O.A.C. ’79  
**Qualification(s):** Students enrolled in the B.Sc.(Agr.) program of the Ontario Agricultural College.

**Amount:** 1 award of $400

#### 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

#### Beth Duncan Gold Medalist [C0205]

Offered by the O.A.C. Alumni Foundation to a student in the B.Sc.(Agr.) program. Application is not required.

**Donor(s):** O.A.C. Alumni Foundation  
**Qualification(s):** Graduating B.Sc.(Agr.) student who has maintained minimum of a 70% standing in all semester levels while participating in and contributing to the extracurricular program on campus.

**Amount:** 1 award of a Medal

#### 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 collegiate 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. Numerous awards ranging in value from $750 to $3,500

#### Bruce County Graduation Prize [C0037]

Offered by the Corporation of the County of Bruce. Application is not required.

**Donor(s):** The Corporation of the County of Bruce  
**Qualification(s):** Student from Bruce County with the highest academic standing in the final full-time semester (4 course minimum), at the 8th semester level, in the B.Sc.(Agr.) program

**Amount:** 1 award of $800

---

Last Revision: March 15, 2014  
2011-2012 Undergraduate Calendar
IX. Scholarships and Other Awards, Bachelor of Science in Agriculture

Bruce M. Cohoe Prize [C0069]
Application is not required.

**Donor(s):** Mr. Bruce M. Cohoe

**Qualification(s):**Student in the final semester level with an interest in agronomy with outstanding academic achievement and participation in extracurricular activities at the departmental, College and University levels.

**Amount:** 1 award of $750

Bruce W. Minshall Memorial Scholarship [I0450]
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 CRQP*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

C.W. Riley Prize [C0246]
The C.W. Riley Prize was established by a number of his friends and associates. Application is not required.

**Donor(s):** Friends and associates of C.W. Riley

**Qualification(s):** Student who, on graduation from Food Agriculture and Resource Economics, Agricultural Business or Resource Economics and Rural Development major, attains the highest proficiency in the area subjects.

**Amount:** 1 award of $375

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 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

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 $300

Cheryl Somerville Memorial Leadership Scholarship [I0647]
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.

**Donor(s):** Family and Friends of Cheryl Somerville

**Qualification(s):** 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.

**Amount:** 1 award of $1,000

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 OAC.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. Squirrel. 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):** Graduating students of the BSc(Agr.) program who plan to undertake graduate study in agriculture at a recognized university.

**Amount:** 2 awards of $3,000

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 $1,400

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

2011-2012 Undergraduate Calendar Last Revision: March 15, 2014
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 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 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 [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 O.A.C 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

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 15 May to 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.(Agr.) 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

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 O.A.C 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 [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. 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 $800

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

Emby 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
Foodland Hydro Scholarship [I0290]
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 Student Financial Services by May 15.
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 [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

Frank and Gertraude Hurnik Scholarship [I0455]
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 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 [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

Glen (Andy) W. Anderson Scholarship [I0380]
Family and friends of Glen (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 summer employment and/or work activity in the agricultural chemical industry and/or leadership activities in weed science and related areas.
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 demonstrate a commitment to and an interest in weed science.
Amount: 1 award of $1,000

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.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 [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 & Wellington County Master Gardeners Scholarship [I0572]
Selection will be based on the student with the highest cumulative average. Application is not required.
Donor(s): Guelph & Wellington County Master Gardeners
Qualification(s): Student that has completed a minimum of 10.0 course credits, enrolled in the B.Sc.(Agr.) program with a major in Horticultural Sciences.
Amount: 1 award of $1,000

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.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 $750
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. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University, two academic and/or professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students form. 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 credits from the University of Guelph with a minimum cumulative average of 75%, and is registered at the time of application.
Amount: 1 award of $1,000

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): Jack and Lillian 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 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 [10386]
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 to Student Financial Services by May 15 with a letter the 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 [10565]
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 [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): A student who has 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 [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 Deere Foundation of Canada Scholarship [10516]
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 receive this award once only.
Amount: 1 award of $2,000

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

Joseph Arlen Memorial Prize in Horticulture [C0330]
Application is not required.
Donor(s): Mrs. Judy Arlen
Qualification(s): Student 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 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 qualification of the evaluation 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. The award will be made on the basis of outstanding service as a Residence Life staff member, 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

Kevin Lang Memorial Scholarship [I0328]
In memory of Kevin Lang, '79 O.A.C. Apply to the O.A.C. Awards Office by May 15.

**Donor(s):** In memory of Kevin Lang, O.A.C. '79

**Qualification(s):** Student with an interest in courses in Animal and Poultry Science who, at the completion of semester 6, has contributed most to extra curricular activities related to animal agriculture.

**Amount:** 1 award of $500

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 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-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 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 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]
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
<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>O.A.C. ’45 Public Speaking Prize</strong> [C0200]</td>
<td>Offered by the Class of ’45 O.A.C., on the occasion of their 40th anniversary. Application is not required. <strong>Donor(s):</strong> Year ’45 O.A.C. <strong>Qualification(s):</strong> Graduating students in the B.Sc.(Agr.) or B.Comm.(Agricultural Business) programs who have demonstrated proficiency in public speaking and communication. <strong>Amount:</strong> 1 award of $1,000</td>
</tr>
<tr>
<td><strong>O.A.C. ’55 Scholarships [I0064]</strong></td>
<td>Provided by the class of O.A.C. ’55. Recipients will have made an outstanding contribution to College life through academic 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. <strong>Donor(s):</strong> O.A.C. ’55 <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $2,000</td>
</tr>
<tr>
<td><strong>O.A.C. Centennial Graduate Prizes [C0209]</strong></td>
<td>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. <strong>Donor(s):</strong> Dean, O.A.C. <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $2,200</td>
</tr>
<tr>
<td><strong>O.A.C. Students’ Federation Medal [C0217]</strong></td>
<td>Application is not required. <strong>Donor(s):</strong> O.A.C. <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of a Medal</td>
</tr>
<tr>
<td><strong>Ontario Agri Business Association Scholarships (formerly Fertilizer Institute) [I0101]</strong></td>
<td>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. <strong>Donor(s):</strong> Ontario Agri Business Association <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $400</td>
</tr>
<tr>
<td><strong>Ontario Horticultural Association Scholarship [I0433]</strong></td>
<td>Provided by the Ontario Horticultural Association. Apply to the O.A.C. Awards Office by May 15. <strong>Donor(s):</strong> Ontario Horticultural Association <strong>Qualification(s):</strong> Student in the B.Sc.(Agr.) program who has excelled in courses in horticultural science and who has completed semester 6. <strong>Amount:</strong> 1 award of $500</td>
</tr>
<tr>
<td><strong>Ottawa-Carleton 1983 International Ploughing Match (O.A.C.) Scholarship [I0227]</strong></td>
<td>Apply, by May 15, to the O.A.C. Awards Committee with a letter outlining extracurricular activities. <strong>Donor(s):</strong> Ottawa-Carleton International Ploughing Match Committee 1983 <strong>Qualification(s):</strong> Students from the City of Ottawa who have completed between 5.0 and 9.75 credits in the B.Sc.(Agr.) program and who have a minimum cumulative average of 70%. <strong>Amount:</strong> 1 award of $1,500</td>
</tr>
<tr>
<td><strong>Out-of-Provience Women’s Middle Distance Running Scholarship [I0635]</strong></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. <strong>Donor(s):</strong> Anonymous <strong>Qualification(s):</strong> In-course student-athlete who is a current member of the Women’s Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario. <strong>Amount:</strong> 1 award of $1,500</td>
</tr>
<tr>
<td><strong>Priscilla and Stanford Reid Trust Prize [I0597]</strong></td>
<td>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. <strong>Donor(s):</strong> Priscilla and Stanford Reid Trust Fund <strong>Qualification(s):</strong> Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition. <strong>Amount:</strong> 1 award of $500</td>
</tr>
<tr>
<td><strong>Professional Staff Association Scholarship [I0628]</strong></td>
<td>This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 with a letter including 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. <strong>Donor(s):</strong> Professional Staff Association <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $1,500</td>
</tr>
<tr>
<td><strong>Professor Victor Matthews Track and Field Scholarships [I0707]</strong></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. <strong>Donor(s):</strong> Various Donors <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. <strong>Amount:</strong> up to 10 $3500 each</td>
</tr>
<tr>
<td><strong>R.J. Watford Prize [C0304]</strong></td>
<td>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. <strong>Donor(s):</strong> R.J. Watford <strong>Qualification(s):</strong> Students graduating from a program offered by the O.A.C. with a demonstrated interest in the poultry industry. <strong>Amount:</strong> 1 award of $500</td>
</tr>
<tr>
<td><strong>R.W. (Bob) Pawley Scholarship [I0231]</strong></td>
<td>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. <strong>Donor(s):</strong> Mr. Robert W. Pawley, O.A.C. ’39 <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $600</td>
</tr>
</tbody>
</table>
### 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 Keegan Memorial Prize [C0148]

Offered by the family of the late Robert Keegan, formerly Professor of Plant Breeding. The award will be presented to a student who demonstrates proficiency and interest in grain crops and who has actively participated in student organizations and extracurricular activities. Apply to the O.A.C. Awards Office by April 1 with a letter demonstrating interest in grain crops and extracurricular activities.

**Donor(s):** The family of the late Robert Keegan  
**Qualification(s):** Students graduating with a major in Agronomy with a minimum 70% cumulative average.  
**Amount:** 1 award of $500

---

### 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 Ethelyn 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 Ethelyn, 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 Ethelyn L. Fulkerson  
**Qualification(s):** Students in agronomy or crop science who have completed semester 6 with at least a 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 [C0147]

In memory of Ross Jones, '71 O.A.C., his friends, colleagues and classmates. Apply with a letter 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

---

### 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.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

---

### 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
**IX. Scholarships and Other Awards, Bachelor of Science in Agriculture**

- **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

- **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 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 Hooven 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 Hooven & 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 to Student Financial Services by May 15 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 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):** 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.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

- **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. Isabel Godfrey
  - **Qualification(s):** Student with and interest in Horticultural Science who has completed 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 and 6 or 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 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 $3,000

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  
**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

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

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  
**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 May 15 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):** A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This award is payable in the second year (ie. completed 5.0 course credits) of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.

**Amount:** 1 award of $2,000

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  
**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:** 2 awards 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.  
**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  
**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 $5,000

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  
**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
### 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. ACCESS AWARD.

**Donor(s):** Jane and George Spence  
**Qualification(s):** Students registered in a major offered by O.A.C. who have a cumulative minimum 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 OTSS 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  
**Qualification(s):** 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 OTSS 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]

R. Douglas (O.A.C. '39) and Kathleen Kennedy (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 $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 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 OTSS 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  
**Qualification(s):** Students registered in the B.ASc., 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 OTSS award (see General Statements on Awards).

**Amount:** 1 award of $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  
**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  
**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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services.

**Donor(s):** The Giuliani Family  
**Qualification(s):** Most academically promising student with a demonstrated disability and having financial need.

**Amount:** 1 award of $880

### Tony and Anne Arrell Scholarships [I0686]

Tony Arrell, OAC BSc (Agri) ’67 and Anne Arrell, MAC BHSC ’88 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
<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Guelph Retiree Association Degree Scholarship [10569]</td>
<td>1 award of $1,500</td>
<td>Students with a minimum 75% cumulative average in a degree program related to a retiree of the University of Guelph. Recipients cannot hold this scholarship and another scholarship greater than $1,500 at the same time.</td>
<td>University of Guelph Retirees Association (U.G.R.A.)</td>
</tr>
<tr>
<td>W. F. Mitchell Athletic Scholarship [14550]</td>
<td>1 award of $1,350</td>
<td>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 OSOTF award (see General Statements on Awards).</td>
<td>The Mitchell Family</td>
</tr>
<tr>
<td>Walter and Marion MacDougald Scholarship [14530]</td>
<td>2 awards of $1,000</td>
<td>Students demonstrating financial need with a minimum of 10.0 credits and less than 15.0 credits who are in the following programs: 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.</td>
<td>Doug MacDougald, D.V.M.</td>
</tr>
<tr>
<td>William &amp; Nona Heaslip Scholarship [10589]</td>
<td>2 awards of $1,000</td>
<td>Students who have completed 4.0 credits but more than 6.0 credits in any degree program; are Canadian citizen/permanent resident; have a minimum 70% cumulative average; and demonstrate financial need.</td>
<td>The William and Nona Heaslip Foundation</td>
</tr>
<tr>
<td>Archie and Isabelle (Cook) Rintoul O.A.C. Bursary [13060]</td>
<td>1 award of $500</td>
<td>Students registered in the department of Environmental Biology in the B.Sc., B.Sc.(Agr), or B.Sc.(Env.) degree programs who have completed a minimum of 10.0 credits and who have demonstrated financial need.</td>
<td>Archie and Isabelle (Cook) Rintoul</td>
</tr>
<tr>
<td>Bette Stephenson Accessibility Bursary [13054]</td>
<td>3 awards 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>Brinson Partners Inc. Bursaries [13526]</td>
<td>2 awards of $1,500</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 [13525]</td>
<td>2 awards of $1,500</td>
<td>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).</td>
<td>Burnbrae Farms</td>
</tr>
<tr>
<td>Class of '72: 25th Reunion Bursaries [13512]</td>
<td>3 awards of $1,000</td>
<td>Students who have completed a minimum of 10.0 credits and less than 15.0 credits who are in the following programs: 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>
<td>Class of '72: 25th Reunion</td>
</tr>
<tr>
<td>Class of O.A.C. ‘33 Bursaries [13531]</td>
<td>3 awards of $300</td>
<td>Additional students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Class of O.A.C. ‘33</td>
</tr>
<tr>
<td>Class of O.A.C. ‘36 Bursaries [13501]</td>
<td>2 awards of $500</td>
<td>Additional students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).</td>
<td>Class of O.A.C. ‘36</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.(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

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

**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. 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 Donald P. Watson

**Qualification(s):** Undergraduate students majoring in Horticultural Science, Landscape Architecture, Agronomy, Agricultural Science or Environmental Science, who have completed a minimum of 10.00 credits and who have demonstrated financial need. Recipients must have satisfactory academic standing in their last 10.00 credits. The scholarships will be awarded based on financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** Several awards ranging in value between $500 and $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

**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

**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 up to $2000

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.

**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) and/or University of Guelph’s 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):** 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 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  
**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 ongoing 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  

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  
**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  

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  
**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  
**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  

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  
**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  

2011-2012 Undergraduate Calendar

Last Revision: March 15, 2014
<table>
<thead>
<tr>
<th>Scholarship/Award</th>
<th>Description</th>
<th>Amount/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>O.A.C. '55 Access Bursaries [I3517]</strong></td>
<td>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.</td>
<td>6 awards of $500</td>
</tr>
<tr>
<td><strong>O.A.C. '57 Bursaries [I3518]</strong></td>
<td>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</td>
<td>5 awards of $1,000</td>
</tr>
<tr>
<td><strong>O.A.C. Alumni Foundation Access Bursaries [I3533]</strong></td>
<td>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</td>
<td>3 awards of $500</td>
</tr>
<tr>
<td><strong>Ontario Agri Business Association Degree Bursaries [I3502]</strong></td>
<td>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 involvement in community/extracurricular activities. ACCESS AWARD.</td>
<td>4 awards of $750</td>
</tr>
<tr>
<td><strong>Ontario Cattlemen’s Association Degree Bursary [I3506]</strong></td>
<td>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.</td>
<td>4 awards of $500</td>
</tr>
<tr>
<td><strong>Ontario Co-operatives R.P. Forshaw Bursary [I3013]</strong></td>
<td>The Co-operatives, Credit Unions, and friends 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. ACCESS AWARD</td>
<td>1 award of $400</td>
</tr>
<tr>
<td><strong>Ontario Federation of Agriculture Bursaries [I3520]</strong></td>
<td>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</td>
<td>12 awards of $500</td>
</tr>
<tr>
<td><strong>Ontario Grape Growers Bursary [I3033]</strong></td>
<td>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. ACCESS AWARD</td>
<td>4 awards of $500</td>
</tr>
<tr>
<td><strong>Ontario Pork (Degree) Bursary [I3049]</strong></td>
<td>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 or a diploma program administered by the Ontario government's OSOTF program. Students must have completed degree in agriculture and have demonstrated financial need. Access AWARD</td>
<td>1 award of $500</td>
</tr>
<tr>
<td><strong>Robert Auger Humanitarian Bursary [I3058]</strong></td>
<td>This award, 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. ACCESS AWARD</td>
<td>Several amounts</td>
</tr>
<tr>
<td><strong>Scotiabank Bursaries [I3532]</strong></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>
</tr>
</tbody>
</table>
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
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 Friends of the University of Guelph
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.
Donor(s): University of Guelph Alumni Association
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.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
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

**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

**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 $1,300

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, seminars 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 and are travelling to the Diplomas 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

Frank E. Wolff International Scholarships [T0313]

The late Frank E. Wolff was a faculty member and a 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.

**Donor(s):** Ron Wolff - friends and associates

**Qualification(s):** Students who have an interest in International Agriculture. The scholarships 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]

Family and friends of Ginty Jocius, B.Sc.(Agr), 1970, have established this award in honour of his personal and professional contributions to agriculture marketing and communications. Selection will be based on relevance of intended travel and benefits to program of study. Preference will be given to students attending the Canadian Agri-Marketing Association Competition at the National Agri-Marketing Association Conference. Apply by February 1st to the OAC Awards Office with a letter outlining planned travel, reasons for travel, dates of travel, estimated costs and expected benefits. Include a reference letter from a faculty member providing criteria for relevance of intended travel and benefits to program of study.

**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
<table>
<thead>
<tr>
<th><strong>H.C. Mason Travel Scholarships [T0598]</strong></th>
<th><strong>Massey Fund Travel Scholarships [T0417]</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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 awarded the H.C. Mason Travel Scholarship. Apply to the O.A.C. Awards Office by May 15, no more than two semesters prior to the commencement of the travel program.</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Mr. F.W. Bray</td>
<td><strong>Donor(s):</strong> O.A.C. Awards Committee</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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.</td>
<td><strong>Qualification(s):</strong> 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.</td>
</tr>
<tr>
<td><strong>Amount:</strong> various awards up to $1,500</td>
<td><strong>Amount:</strong> 6 awards of up to $2,000 each</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>J. Ross Cavers Study Abroad Scholarship [T0051]</strong></th>
<th><strong>Michael Chepesuik International Travel Grant [T0373]</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Class of O.A.C. ’53</td>
<td><strong>Donor(s):</strong> Mr. Michael W. Chepesuik</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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 and Poultry Science for over 34 years. Apply by letter to the Chair, Department of Animal Science specializing in Microbiology.</td>
<td><strong>Qualification(s):</strong> 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><strong>Amount:</strong> 2 awards of $2,000</td>
<td><strong>Amount:</strong> 1 award of $1,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>J.D. Cunningham Travel Grant [T0605]</strong></th>
<th><strong>O.A.C. ’05 Excellence Travel Grant [T0060]</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Ontario Food Protection Association</td>
<td><strong>Donor(s):</strong> Class of OAC 1905 and the Class of OAC 2005</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> Students currently enrolled in any O.A.C. program with a minimum cumulative average of 75%. Preference will be given to students in Animal Biology or 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>
<td><strong>Qualification(s):</strong> Students registered in any program offered by O.A.C. with a minimum 70% cumulative average who intend to participate in an approved study abroad program with a minimum 75% cumulative average. Preference should be considered as part of the application package.</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $2,000</td>
<td><strong>Amount:</strong> 1 award of $300</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Kincardine Shippers Association Travel Grant [T0676]</strong></th>
<th><strong>O.A.C. ’47 Travel Bursaries [T3505]</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Kincardine Shippers Association</td>
<td><strong>ACCESS AWARD</strong></td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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.</td>
<td><strong>Donor(s):</strong> O.A.C. ’47</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,000</td>
<td><strong>Qualification(s):</strong> 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).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Lorne Page Memorial Travel Grants [T0475]</strong></th>
<th><strong>O.A.C. ’54 International Study Scholarship [T0586]</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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 contribution to the program in the department. One or two awards totalling $1,000.</td>
<td>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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong> Shirley Page</td>
<td><strong>Donor(s):</strong> Class of O.A.C. ’54</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong> 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>
<td><strong>Qualification(s):</strong> 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.</td>
</tr>
<tr>
<td><strong>Amount:</strong> 1 award of $1,000</td>
<td><strong>Amount:</strong> several awards of various amounts</td>
</tr>
</tbody>
</table>
### Ontario International Education Opportunity Scholarship (OIEOS) [T0614]

On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

**Donor(s):** Government of Ontario  
**Qualification(s):** Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.  
**Amount:** approximately 71 awards of $2,500

### 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 Need Assessment Form and include one-page description of the intended travel. ACCESS AWARD

**Donor(s):** Ontario University Registrars’ Association (OURA)  
**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  
**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

### 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

### 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
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

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. 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.(Env.) Alfred McIntyre Cuddy Memorial Scholarship [E0670]
Established by the Estate of Alfred McIntroy (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 McIntroy 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

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

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 Polytchnique 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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]</td>
<td>1 award of $1,350</td>
</tr>
<tr>
<td>George A. Gray O.A.C. ’51 Varsity Scholarships [E0487]</td>
<td>2 awards of $1,250</td>
</tr>
<tr>
<td>George Ames Cross Country Scholarship in Memory of Coach Vic Matthews [E0677]</td>
<td>1 award of $3,500</td>
</tr>
<tr>
<td>Gordon McNally Memorial Scholarship [E0203]</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Gordon W. Innes Scholarship [E0140]</td>
<td>1 award of $1,400</td>
</tr>
<tr>
<td>Gryphon Athletic Scholarships [E0631]</td>
<td>various awards of $750 to $3,500</td>
</tr>
<tr>
<td>Football Endowment Fund (FEF) Scholarship [E0644]</td>
<td>various awards of $750 to $3,500</td>
</tr>
</tbody>
</table>

### IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences

#### 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 Team and who has achieved a minimum 80% admission average.

**Amount:** 1 award of $1,350

#### Established by friends, faculty, staff, alumni and students of the University to honour Mrs. George A. Gray

**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

#### Established by the Athletics Awards Committee of the Woodstock Agricultural Society.

**Donor(s):** University of Guelph

**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:** 1 award of $3,000

#### Dr. John Scott-Thomas Cross / Country and Track and Field Scholarship [E0695]

- **Recipients 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 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]

- **Recipients will be selected based on demonstrated athletic and leadership qualities. No application is required.**
- **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. No application is 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

#### 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.**
- **Donor(s):** Jean and Peter Gower
- **Qualification(s):** Students entering any undergraduate 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. ‘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. No application is 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

#### Football Endowment Fund (FEF) Scholarship [E0644]

- **Recipients will be selected based on demonstrated athletic and leadership qualities. No application is 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
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): Jack and Lillian 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

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 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 one $6,000 stipend for summer research assistance)

Lloyd Dorr Memorial Hockey Scholarship [E0708]
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 Scholarships [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

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
### 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 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

### Out-of-Province Women's Middle Distance Running Scholarship [E0635]

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  
**Qualification(s):** Entering student-athlete who is a member of the Women’s Middle Distance team, who has achieved a minimum 80% admission average and whose permanent residence is outside of Ontario  
**Amount:** 1 award of $1,500

### 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 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 McTalcaf  
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 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 $3,000 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
### 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

### 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

### Walter and Halina Slabikowski Scholarship [E0748]

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

### 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.  
**Qualification(s):** 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.  
**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

### 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
Mr. Peter J. Devine

- Students who have been nominated for a President's Scholarship with
- Students entering the Microbiology major in the B.Sc. program with

3 awards of $1,250

Family, friends and colleagues of Norman Gibbins

- The Blount Foundation, Inc.
- Interhall Council

2 awards of $30,000 (payable over 4 years of study)

1 award of $9,600 (payable in 8 payments of $1,200)

Paul and Aileen Clarke

- 1 award of $1,000

Mr. Robert C. Skipper

- Alexander Chancellor's Scholarship, but can be held with all other entrance awards, ACCESS AWARD.

**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 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  

**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 and demonstrate their ability to Student Financial Services by April 15. Additionally, two of the five recipients will be 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 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 scholarships 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.

**Donor(s):** Mr. John Embry  

**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. The winner is chosen from the list of alternates for the President's Scholarships. President’s Scholarship nominees 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. During the summer after the 3rd year, the scholar will be contacted to attend a day at the Blount Foundation, Inc. and write a report of the experience to Student Financial Services. Upon completion, the student will write a report of the experience to Student Financial Services. ACCESS AWARD.

**Donor(s):** The Blount Foundation, Inc.

**Qualification(s):** Students who have been nominated for a President's Scholarship with demonstrated financial need and entering one of the following programs on an annual rotation: B.A. in 98/99, then B.A.Sc., B.Comm., B.Sc., B.Sc.(Agr.), B.ENG., B.Sc.(Env.). Recipients must maintain a B+ average or higher, continue to demonstrate financial need and be full-time students in order to qualify for subsequent installments. 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)

**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

**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 Aleen 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. The scholarship will be awarded 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):** Paul and Aleen 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 must 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
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
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
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

William Guy Walton Scholarship [E0671]
As Mr. Walton owned a family farm where the Scarborough Town Centre now sits, he wanted to help young people from that area and encourage support for agriculture. Selection will be based on academic achievement, demonstrated leadership ability and involvement in the community. Financial need may also be considered. Apply by April 15 to Student Financial Services with a letter, not more than two pages, outlining demonstrated leadership, volunteer service in the community along with a completed Financial Need Assessment Form for Entrance Awards.

Donor(s): Estate of William Guy Walton
Qualification(s): Students from any Scarborough, Ontario high school entering any program offered by O.A.C.
Amount: 1 award of $5,000

Entrance Bursaries

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 (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
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 I. E. Weldon Secondary School will be considered. Each application must be accompanied by a reference letter from the Reeve of the student's hometown.
Amount: 1 award of $1,700

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 submitted. Students should apply 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.

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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Code</th>
<th>Amount</th>
<th>Selection Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Guelph Accessibility Bursaries [E3038]</td>
<td></td>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>
| In-course Scholarships                                |            |                         | **Al 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):** 9575-58 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:** 150 awards of $9,000 (payable over 4 years) plus a $2,000/year Work-study approval  |            |
|                                                      |            |                         | **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  |            |
|                                                      |            |                         | **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 year 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 CRCP*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 [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 extracurricular 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

Certified General Accountants of Ontario Prize for Excellence [C0025]
Awarded to the graduating student with the highest average in the three accounting courses listed. Application is not required.

**Donor(s):** Certified General Accountants of Ontario

**Qualification(s):** A graduating student who has a minimum 80% cumulative average in Intermediate Accounting ACCT*3330, Intermediate Financial Accounting ACCT*3340, Management Accounting ACCT*2230 and Intermediate Management Accounting ACCT*2320.

**Amount:** 1 award of $500, plus 1 year tuition and course fee towards the CGA program. (approximate value 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

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 $300

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 15to 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 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 $1,400

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

CME Distinguished Scholar Medal – Undergraduate (Winegard Medal Nominee) [C0685]
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

**Qualification(s):** CME's Winegard Medal nominee.

**Amount:** 1 Medal

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 [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

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
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

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 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 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. 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 $800

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 Nilsen Memorial Scholarship [I0047]
Apply to the Director for International Development Studies with a transcript, cv/resume, and a cover letter outlining how past experiences demonstrate a commitment to social change by January 30th. Preference will be given to a student registered in a Graduate program at the University of Guelph.

Donor(s):
The Friends of Ellen Nilsen

Qualification(s):
Registered academically outstanding female students from developing countries who have demonstrated a commitment to social change.

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
IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences

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

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

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 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 a 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

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

Hung-So Chou Yuen Leadership Scholarship [I4400]
This award was established in memory of Hung-So Chou 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 OTSS award (see General Statements on Awards).
Amount: 1 award of $1,500
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>International Undergraduate Scholarship [I0577]</strong></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. Application to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University, two academic and/or professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students form. This award can only be held once by the student.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>International Student Organization (ISO)</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></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%, and is registered at the time of application.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Jack and Lillian MacDonald Scholarship [E0379]</strong></td>
<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>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>Jack and Lillian MacDonald</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>Entering students coming from the Six Nations Polytechnic (SNP).</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $900</td>
</tr>
<tr>
<td><strong>James MacMillan Memorial Scholarship [I0494]</strong></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><strong>Donor(s):</strong></td>
<td>Austin Conway</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $2,500</td>
</tr>
<tr>
<td><strong>Jean Carter Memorial Gerontology Scholarship [I0488]</strong></td>
<td>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 two letters of reference where one demonstrates volunteer experience with the elderly and the other demonstrates extracurricular activities.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>Mr. Robert N. Carter and Family</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>Students majoring in Gerontology or Adult Development, Families &amp; Well-Being in the BASc. program who have completed at least 10.0 credits and have a minimum 70% cumulative average.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>Jim Stokman Memorial Scholarship [I0386]</strong></td>
<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 to Student Financial Services by May 15 with a letter the indicates rural background and demonstrated community/student involvement both during high school and the first two semesters of University.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>Mrs. Jim Stokman</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $550</td>
</tr>
<tr>
<td><strong>John A. Archibald Memorial Scholarship [I0014]</strong></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>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>The friends and associates of the late John A. Archibald</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>Full-time students 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.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $750</td>
</tr>
<tr>
<td><strong>John Burton Scholarship [I0642]</strong></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>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>Dr. John Burton</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>Students registered in any program offered by the OAC who have completed between 10.0 and 12.0 credits with a minimum 70% average.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td><strong>John Eccles Scholarship [I0093]</strong></td>
<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>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>Student Housing Services</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $600</td>
</tr>
<tr>
<td><strong>John Kenneth Galbraith Scholarship in Economics [I0108]</strong></td>
<td>Selection will be based on the highest combined average in Economics (ECON) courses. No application necessary.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>The Board of Governors, University of Guelph</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>Students registered in any major offered by the Department of Economics who have completed between 12.50 and 15.00 credits.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $600</td>
</tr>
<tr>
<td><strong>Kelly Bertrand Cross Country Scholarship [I0684]</strong></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>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>Kelly Bertrand</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>Current members of the Varsity Cross Country Team who have achieved a minimum 70% average or equivalent during the previous academic year.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $2,000</td>
</tr>
<tr>
<td><strong>Ken and Marilyn Murray Scholarship [I0734]</strong></td>
<td>Dr. Kenneth G. Murray C.M., OAC BSA ‘50 andHonorary 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.</td>
</tr>
<tr>
<td><strong>Donor(s):</strong></td>
<td>Dr. Kenneth G. and Mrs. Marilyn C. Murray</td>
</tr>
<tr>
<td><strong>Qualification(s):</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Amount:</strong></td>
<td>1 award of $2,000</td>
</tr>
</tbody>
</table>
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 Conolly Exchange Student Scholarships [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]

Preference given to a former OHF 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 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

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 (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

Monroe Landon Memorial Prize [C0153]

Preference will be given to a student residing in the region of Haldimand 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

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

Out-of-Province Women’s Middle Distance Running Scholarship [I0635]

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

**Qualification(s):** In-course student-athlete who is a current member of the Women’s Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario.

**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 with a letter including 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 x 3500 each

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.

**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

Last Revision: March 15, 2014 2011-2012 Undergraduate Calendar
### 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 ENVS*2150, and one of a) Environmental Politics POLS*3370, or b) Management of the Biophysical Environment and Governance GEGO*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 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

### 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

### Van Stralen and Van Der Hoeven Memorial Scholarship [I0296]
Selection will be made on the basis of participation in university activities and 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. Harold Minshall Scholarship [I0451]
Provided by Dr. W.H. Minshall (O.A.C.’33). Apply to Student Financial Services by May 15 with a letter indicating interest and aptitude in crop protection, particularly in weed biology and management and listing extracurricular involvements. Awarded on the basis of academic standing in the relevant courses and participation in extracurricular 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. 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 has been a member of the University's athletics teams.

**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 who has made a substantial contribution to the University's athletics programs.

**Amount:** 1 award of a Gold 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 the Department of Land Resource Science who has completed a minimum 15.0 course credits.

**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.

**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 $3,000

Anne and Ross Bronson Scholarship in Environmental Science [I4514]

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 broader community and farming background and a completed Financial Need Assessment Form to Student Financial Services. ACCESS AWARD.

**Donor(s):** Anne and Ross Bronson

**Qualification(s):** Students who have completed a minimum of 10.0 credits in the B.Sc.(Env.) program with a minimum 70% cumulative average, demonstrated leadership abilities and involvement in the university and/or broader community 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 $2,000

Barbara A. Bowen Scholarship [I4390]

Established by Barbara A. Bowen, MAC '87. 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

**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

**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

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

**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 $750

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
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
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 [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 May 15 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): A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This award is payable in the second year (ie. completed 5.0 course credits) of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.
Amount: 1 award of $2,000

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
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: 2 awards 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.
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
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 $5,000

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
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

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 high academic achievement. Apply by October 7th to Student Financial Services with a completed Financial Need Assessment Form. ACCESS AWARD.
Donor(s): Jane and George Spence
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
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 $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 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

### 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  
**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

### 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.

**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  
**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 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.  
**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 $1,000

### 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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services.

**Donor(s):** The Giuliani Family  
**Qualification(s):** Most academically promising applicant with a demonstrated disability and having financial need.  
**Amount:** 1 award of $880
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellington Laboratories Scholarship [I4308]</td>
<td>2 awards of $1,000</td>
<td>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).</td>
<td>Mr. Brock Chittam of Wellington Laboratories</td>
</tr>
<tr>
<td>Brinson Partners Inc. Bursaries [I3526]</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>Brinson Partners Inc.</td>
</tr>
<tr>
<td>William &amp; Nona Heaslip Scholarship [I0589]</td>
<td>2 awards of $15,000</td>
<td>Students 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).</td>
<td>The William and Nona Heaslip Foundation</td>
</tr>
<tr>
<td>Yeandle Family Scholarships [I3546]</td>
<td>Several awards up to $2,000</td>
<td>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).</td>
<td>The Estate of Audrey Yeandle</td>
</tr>
<tr>
<td>Class of '72: 25th Reunion Bursaries [I3512]</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>Families of Cathy and Brian Berg</td>
</tr>
<tr>
<td>Class of O.A.C. '33 Bursaries [I3531]</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>
<td>Class of 1933 (in honour of the late Prof. W.I.J. Squirrell)</td>
</tr>
<tr>
<td>Class of O.A.C. '36 Bursaries [I3501]</td>
<td>2 awards of $500</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 1936</td>
</tr>
</tbody>
</table>

**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 O.A.C. Bursary [I3060]</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.</td>
<td>Archie and Isabelle (Cook) Rintoul</td>
</tr>
<tr>
<td>Bette Stephenson Accessibility Bursary [I3054]</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>
</tbody>
</table>
IX. Scholarships and Other Awards, Bachelor of Science in Environmental Sciences

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.(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

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 A.O.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
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 achievement 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 R. Watson Bursaries in Horticultural Science [I4501]
Established by the estate of Donald R. Watson, O.A.C.'74, 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 Donald R. Watson
Qualification(s): Undergraduate students majoring in Horticulural Science, Landscape Architecture, Agronomy, Agricultural Science or Environmental Science, who have completed a minimum of 10.00 credits and who have demonstrated financial need. Recipients must have satisfactory academic standing in their last 10.00 credits. The scholarships will be awarded based on financial need. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

Amount: Several awards ranging in value between $500 and $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
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 up to $2000

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
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.
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 [I3661]
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 of $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
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

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  
**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 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

### Joan Weatherly Memorial Bursary [I3065]

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 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

### 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  
**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

### 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  
**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 OSOTF 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  
**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

### 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  
**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

Last Revision: March 15, 2014
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
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
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
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. ACCESS AWARD.
Donor(s): Ontario Federation of Agriculture
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 [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. ACCESS AWARD.
Donor(s): Family and Friends of Ron Scriver
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
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

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
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
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

Last Revision: March 15, 2014
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

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 offers bursaries to students who have demonstrated financial need. Apply to Student Financial Services, with a completed International Student Financial Need Assessment Form (N.A.F.) to Student Financial Services 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 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 $4000

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

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 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 CSABS Awards Committee by completing the CSABS 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

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. Latournell Undergraduate Travel Grants [T0058]

An endowment fund established in memory of Arthur D. Latournell, 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. Latournell

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

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 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

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.
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 [T6005]
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

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 Miyanishi International Travel Grant [T0742]
Established by Dr. Kiyoko Miyanishi, 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/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. The letter should be
accompanied by a budget outlining travel expenses and other revenue sources.

Donor(s): Dr. Kiyoko Miyanishi and Dr. Edward A Johnson

Qualification(s): Full-time students registered in any degree program in CSAWS 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 Dept. 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 [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 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  
**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

### Ontario International Education Opportunity Scholarship (OIEOS) [T0614]

On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Indigenous students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

**Donor(s):** Government of Ontario  
**Qualification(s):** Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.  
**Amount:** approximately 71 awards of $2,500

### 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)  
**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  
**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 associate 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/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 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

Ali 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’ 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

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 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

Eldine 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

2011-2012 Undergraduate Calendar Last Revision: March 15, 2014
IX. Scholarships and Other Awards, Bachelor of Science in Technology

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 Chancellor’s Scholarships or the Board of Governors’ Scholarships. Application is not required.

Donor(s): Ernie 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 (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 Blandau Men’s Basketball Scholarship [E0639]
Established by Christian Blandau, 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 Blandau
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 [E0152]
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

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): Jack and Lillian MacDonald
Qualification(s): Students entering any degree program 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

Last Revision: March 15, 2014
2011-2012 Undergraduate Calendar
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Larry Pearson Men's Volleyball Athletic Scholarships [E0618]</td>
<td>Larry Pearson</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>several awards up to $3,500</td>
</tr>
<tr>
<td>Latifpoor-Keparoutis Family Varsity SwimTeam Scholarship [E0732]</td>
<td>Maryam Latifpoor-Keparoutis</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>1 award of $1,200</td>
</tr>
<tr>
<td>Lincoln Alexander Scholarships [E0689]</td>
<td>Many Donors</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>2 awards of $32,000 ($6,500 annually for 4 years of study plus $6,000 stipend for summer research assistantship)</td>
</tr>
<tr>
<td>Lloyd Dorr Memorial Hockey Scholarship [E0708]</td>
<td>Family and Friends of the late Lloyd Dorr</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>1 award of $1,000</td>
</tr>
<tr>
<td>McArthur-Humphries Scholarship [E0183]</td>
<td>Wilhelmmina McArthur-Humphries Trust Fund</td>
<td>Students entering any degree program with a minimum 75% admission average from Lanark and Wellington Counties.</td>
<td>12 awards of $1,000</td>
</tr>
<tr>
<td>Men's Basketball Scholarships [E0638]</td>
<td>Anonymous (Alumnus)</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>4 awards of $2,500</td>
</tr>
<tr>
<td>Moulton-Hutchinson Family Track and Field Scholarship [E0705]</td>
<td>The Moulton and Hutchinson Families</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 $3,500</td>
</tr>
<tr>
<td>Out-of-Province Women’s Middle Distance Running Scholarship [E0635]</td>
<td>Anonymous</td>
<td>Entering student-athlete who is a member of the Women's Middle Distance team, who has achieved a minimum 80% admission average and whose permanent residence is outside of Ontario.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>Pamela Wallin Chancellor’s Scholarships [E0688]</td>
<td>University of Guelph</td>
<td>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.</td>
<td>2 awards of $32,000 ($6,500 annually for 4 years of study plus $6,000 stipend for summer research assistantship)</td>
</tr>
<tr>
<td>President's &amp; Chancellor's Finalists Scholarship [E0651]</td>
<td>Provost, and Vice-President Academic of the University of Guelph</td>
<td>Students entering any degree program who have been interviewed for consideration for a President's or Chancellor's Scholarship.</td>
<td>several awards of $500</td>
</tr>
</tbody>
</table>

**Notes:***
- The amounts listed are approximate and subject to change.
- Some scholarships require specific academic or athletic achievements.
- Application processes may vary and are subject to change.
- For more information, please consult the University of Guelph's official calendar or contact their financial aid department.
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, 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: Cecile H. Franklin and Ingrid Franklin

In honour of Cecile 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 her 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.

**Mr. and Mrs. F.T. 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 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 assistantship)

---

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

---

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 [E0748]

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@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 demonstrated 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

---

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

---

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

---

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
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 ethnic diversity 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 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 2016, 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
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
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

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): Friends, family and colleagues of Norman Gibbins
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 Chancellor’s 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 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 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): Rol-Land Farms
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
Entrance Bursaries

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 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 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 $1,700

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 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

Ali Singleton Hockey Scholarships [10687]

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. 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
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

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 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 Dean’s Honours List.
Amount: 1 award of $1,400

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 Scholarship [I0076]
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 [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

Copernicus Scholarship in Physics [I0081]
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

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. 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

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

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 academic 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 $775 to $3,500

George A. Farley Scholarship [I0099]

Established in memory of George A. Farley, a chemistry graduate of the Class O.A.C. ’33. This scholarship is presents to the student that demonstrates proficiency and academic achievement as evidenced by work term reports, term work assessments and course grades. Presented in the Winter semester. Application is not required.

**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 [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 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

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 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 a 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. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University, two academic and/or professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students form. 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%, and is registered at the time of application.
Amount: 1 award of $1,000

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 Years 2 and 3 of the major.
Amount: 1 award of $1,000

Jack and Lilian 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 a graduate of the SNP (or previously, the Grand River Polytechnical Institute) who has the highest cumulative average at the University.

Donor(s): Jack and Lilian 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. The award will be made on the basis of outstanding service as a Residence Life staff member, 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. Apply by October 31st to Student Housing Services, Associate Director, Residence Life and Family Housing and include a letter of reference and personal statement.

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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Code</th>
<th>Description and Qualification(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lambda Foundation Scholarship in LBGT Studies</td>
<td>I0591</td>
<td>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 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. <strong>Donor(s):</strong> Lambda Foundation and other donors <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $1,000</td>
</tr>
<tr>
<td>Lange and Prokipcak Chemistry Scholarship</td>
<td>I0528</td>
<td>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. <strong>Donor(s):</strong> Professor Gordon L. Lange, Professor Joe M. Prokipcak and friends and colleagues <strong>Qualification(s):</strong> Student registered in any program offered by C.P.E.S. who has completed a minimum of 10.0 credits up to a maximum of 14.75 credits. <strong>Amount:</strong> 1 award of $1,000</td>
</tr>
<tr>
<td>Larry Pearson Men’s Volleyball Athletic Scholarships</td>
<td>I0618</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. <strong>Donor(s):</strong> Larry Pearson <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> several awards up to $3,500</td>
</tr>
<tr>
<td>Latifpoor-Keparoutis Family Varsity Swim Team Scholarship</td>
<td>I0732</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. <strong>Donor(s):</strong> Maryam Latifpoor-Keparoutis <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $1,200</td>
</tr>
<tr>
<td>Leonile Connolly Exchange Student Scholarship</td>
<td>I0446</td>
<td>Established by students, faculty, staff and friends to honour Prof. Leonile 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. <strong>Donor(s):</strong> Students, staff, faculty and friends of Dr. Leonile Connolly <strong>Qualification(s):</strong> 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). <strong>Amount:</strong> 1 award of $1,000</td>
</tr>
<tr>
<td>Lloyd Dorr Memorial Hockey Scholarship</td>
<td>I0708</td>
<td>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. <strong>Donor(s):</strong> Family and Friends of the late Lloyd Dorr <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $1,000</td>
</tr>
<tr>
<td>MacKenzie Scholarship</td>
<td>I0398</td>
<td>In honour of University Professor Emeritus Innes K. MacKenzie. Not tenable with the Egelsstaff Scholarship. Application is not required. <strong>Donor(s):</strong> Department of Physics <strong>Qualification(s):</strong> 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 &amp; 3 of the major. <strong>Amount:</strong> 1 award of $1,000</td>
</tr>
<tr>
<td>MacNaughton Scholarship</td>
<td>I0422</td>
<td>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. <strong>Donor(s):</strong> Earl B. MacNaughton <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 1 award of $500</td>
</tr>
<tr>
<td>Marion McKenzie Scholarships for Outstanding Achievement in History</td>
<td>I0470</td>
<td>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<em>1010, HIST</em>2450, HIST<em>2602 ). Application is not required. <strong>Donor(s):</strong> TBA <strong>Qualification(s):</strong> The recipient for HIST</em>1010 must have completed no more than 5.0 credits; the recipient for HIST<em>2450, no more than 10.0 credits and be in the history program; and the recipient for HIST</em>2602, no more than 10.0 credits. <strong>Amount:</strong> 3 awards of $400</td>
</tr>
<tr>
<td>Men’s Basketball Scholarships</td>
<td>I0638</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. <strong>Donor(s):</strong> Anonymous (Alumnus) <strong>Qualification(s):</strong> 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. <strong>Amount:</strong> 4 awards of $2,500</td>
</tr>
<tr>
<td>Out-of-Province Women’s Middle Distance Running Scholarship</td>
<td>I0635</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. <strong>Donor(s):</strong> Anonymous <strong>Qualification(s):</strong> In-course student-athlete who is a current member of the Women’s Middle Distance team, has achieved a minimum 70% average in the previous academic year and whose permanent residence is outside of Ontario. <strong>Amount:</strong> 1 award of $1,500</td>
</tr>
<tr>
<td>Priscilla and Stanford Reid Trust Prize</td>
<td>I0597</td>
<td>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. <strong>Donor(s):</strong> Priscilla and Stanford Reid Trust Fund <strong>Qualification(s):</strong> Any student submitting an essay on the history of Presbyterianism and/or Reformed tradition. <strong>Amount:</strong> 1 award of $500</td>
</tr>
</tbody>
</table>
### Professional Staff Association Scholarship [I0628]

This scholarship is provided to students with the highest cumulative average. Apply to Student Financial Services by May 15 with a letter including 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 recipients 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 |

### 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 has completed a minimum of 10.0 credits up to a maximum of 19.75 credits and is enrolled in a physics major.

| Amount: | 1 award of $900 |

### 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 |

### 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. honours major Chemistry and the B.Sc.(Tech.) honours major Applied Pharmaceutical Chemistry.

| Amount: | 2 awards of an Engraved plaque |

### 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.

| 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 |

### 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 alumna/alumnus relative and a resume or summary of leadership and volunteer contributions to the University of Guelph community.

**Donor(s):** United Steelworkers LU4120  
**Qualification(s):** Student 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.

<p>| Amount: | 1 award of $1,000 |</p>
<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>Van Stralen and Van Der Hoeven Memorial Scholarship</td>
<td>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.</td>
<td>2 awards of $400</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>Mr. &amp; Mrs. J. Van Stralen &amp; family and Mr. &amp; Mrs. Hans Van Der Hoeven &amp; family</td>
</tr>
<tr>
<td>W.C. Winegard Medal</td>
<td>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.</td>
<td>1 award of a Gold medal</td>
<td>Graduating student who excels both academically and in extracurricular activities.</td>
<td>The Board of Governors of the University</td>
</tr>
<tr>
<td>W.N. Vaughan Medal</td>
<td>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.</td>
<td>1 award of a Medal</td>
<td>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.</td>
<td>Friends of Walter N. Vaughan</td>
</tr>
<tr>
<td>William L. McEwen OAC ’43 Men’s Varsity Hockey Scholarships</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>
<td>Numerous awards ranging in value from $750 to $3,500</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>
<td>Mrs. Irene McEwen</td>
</tr>
<tr>
<td>Brian Kenneth Howard Memorial Scholarship</td>
<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>
<td>1 award of $2,700</td>
<td>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 OSGSS award (see General Statements on Awards).</td>
<td>Kenneth and Irene Howard</td>
</tr>
<tr>
<td>C.P.E.S. Dean’s Scholarship - ACCESS</td>
<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. This award may be held only once. ACCESS AWARD</td>
<td>1 award of $1,000</td>
<td>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 OSGSS award (see General Statements on Awards).</td>
<td>Established by a number of industrial, commercial and public sector corporations</td>
</tr>
<tr>
<td>City of Guelph 175th Anniversary Scholarship</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. ACCESS AWARD</td>
<td>1 award of $750</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>
</tr>
<tr>
<td>Earl B. MacNaughton C.P.E.S. ACCESS Scholarships</td>
<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 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.</td>
<td>1 award of $2,000</td>
<td>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 OSGSS award (see General Statements on Awards).</td>
<td>Earl B. MacNaughton</td>
</tr>
<tr>
<td>3M Canada Scholarships</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>
<td>2 awards of $1,000</td>
<td>Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.</td>
<td>3M Canada Company</td>
</tr>
<tr>
<td>In-course Scholarships with Financial Need</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>
<td>2 awards of $3,000</td>
<td>Students entering Year 4 (ie. having completed a minimum of 15.0 credits) with demonstrated financial need and high academic achievement.</td>
<td>3M Canada Company</td>
</tr>
</tbody>
</table>

Last Revision: March 15, 2014 2011-2012 Undergraduate Calendar
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 May 15 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): A student who has resided in an on-campus residence during the first semester and who has a minimum cumulative average of 70%. This award is payable in the second year (i.e. completed 5.0 course credits) of study. Preference will be given to students with demonstrated financial need and who have participated significantly in extracurricular activities.
Amount: 1 award of $2,000

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
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: 2 awards of $1,350

Euclid-Hitachi Scholarships [I4517]
Established by Euclid-Hitachi of Canada Ltd., with the assistance of the Ontario government's OTSS 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.
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 OTSS 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 OTSS 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
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 OTSS award (see General Statements on Awards).
Amount: 1 award of $5,000

Graham, Fraser and Trevor Bosch Scholarships in Chemistry [I4288]
Established by Mr. Martin Bosch of the Guelph Soap Company, with the assistance of 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 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
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 OTSS award (see General Statements on Awards).
Amount: 2 awards 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
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

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 OTSS 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
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 OTSS 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 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
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
IX. Scholarships and Other Awards, Bachelor of Science in Technology

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

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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services.
Donor(s): The Giuliani Family
Qualification(s): Most academically promising applicant with a demonstrated disability and having financial need.
Amount: 1 award of $880

Tony Arrell OAC Bsc (Agri) ’67 and Anne Arrell, MAC Bhs C ’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, 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 must submit a Financial Need Assessment Form (N.A.F.) to Student Financial Services by October 7. ACCESS AWARD
Donor(s): The Mitchell Family
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 [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
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 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

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.
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
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

Last Revision: March 15, 2014
2011-2012 Undergraduate Calendar
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
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
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 up to $2000

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.
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
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
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]

The University of Guelph supports provide 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): 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 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  
**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

### 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, 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  
**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  
**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

### 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  
**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  
**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
The 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

**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 [T0605]**
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  
**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

Ontario International Education Opportunity Scholarship (OIEOS) [T0614]
On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

**Donor(s):** Government of Ontario  
**Qualification(s):** Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.  
**Amount:** approximately 71 awards of $2,500

**OURA Innovation Travel Grant [T4933]**
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)  
**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):** Students who have completed at least 4.0 credits 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 twice during their undergraduate studies. ACCESS AWARD.

**Donor(s):** The Estate of Richard Hungerford  
**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. 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

---

2011-2012 Undergraduate Calendar  
Last Revision: March 15, 2014
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 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

Quinte District Veterinary Medical Association [E2002]
Awarded to the student with the highest average on eight required courses and MCAT score. Application is not required.

Donor(s): Quinte District Veterinary Medical Association
Qualification(s): Student entering Phase 1 of the D.V.M. program from one of the following counties: Lennox and Addington, Prince Edward, Hastings or Northumberland.
Amount: 1 award of $250

William Guy Walton Scholarship [E2172]
Established to support students from the Scarborough area who demonstrate exemplary community involvement prior to entering the DVM program at the Ontario Veterinary College. Apply to the OVC, Office of the Associate Dean, Students by October 15, with an official copy of high school transcript, CV, covering letter and two letters of reference attesting to community involvement.

Donor(s): Estate of William Guy Walton
Qualification(s): Registered students in phase 1 of the DVM program who have graduated from a high school in the former City of Scarborough, Ontario.
Amount: 1 award of $5,000

Entrance Scholarships with Financial Need

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 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 4 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.

Donor(s): The Jean Rich Foundation
Qualification(s): Students that entered Phase 1 of the D.V.M. program in the fall with demonstrated financial need.
Amount: 1 award of $24,000

Eleanor McEwen Bursaries [E2153]
This award is paid out over four years at $6,000 per year. Not tenable with other awards of $5,000 per year or greater. Apply with a completed Financial Need Assessment Form (N.A.F) to Student Financial Services by October 7. This award is offered once every 4 years to an entering D.V.M. student. 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.

Donor(s): The Jean Rich Foundation
Qualification(s): Students that entered Phase 1 of the D.V.M. program in the fall semester with the greatest demonstrated need of financial assistance.
Amount: 1 award of $24,000

Peter Rich Bursaries [E2123]
Established by the Jean Rich Foundation, this award is paid out over four years at $7,500 per year. Not tenable with other awards of $5,000 per year or greater. 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 Jean Rich Foundation
Qualification(s): Students that entered Phase 1 of the D.V.M. program in the fall semester with the greatest demonstrated need of financial assistance.
Amount: 1 award of $30,000

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

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

Alan H. Meek Prize for Leadership & Citizenship [C2165]
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.

Donor(s): Dr. Alan H. Meek
Qualification(s): Students who have completed Phase 4 of the DVM program with a minimum 80% program average.
Amount: 1 award of $2000 and a certificate, and a certificate
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Amount</th>
<th>Qualification(s)</th>
<th>Donor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen Keele Track and Field Scholarship [I0663]</td>
<td>1 award of $1,350</td>
<td>Student who has completed Phase 4 of the D.V.M. program and who</td>
<td>Allen Keele</td>
</tr>
<tr>
<td></td>
<td></td>
<td>has achieved a minimum 70% average in the previous academic year.</td>
<td></td>
</tr>
<tr>
<td>American Animal Hospital Association Prize [C2003]</td>
<td>1 Engraved Plaque</td>
<td>Student successfully completing Phase 4 of the D.V.M. program. The prize will</td>
<td>The American Animal Hospital Association</td>
</tr>
<tr>
<td></td>
<td></td>
<td>be awarded based on proficiency in VETM<em>4610 or VETM</em>4660 or VETM*4920 (Small Animal Clinics).</td>
<td></td>
</tr>
<tr>
<td>Andrea Nott Memorial Scholarship [I2158]</td>
<td>1 award of $750</td>
<td>D.V.M. student who has successfully completed Phase 1 and is completing Art of</td>
<td>Callbeck Animal Hospital</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Veterinary Medicine I (VETM*3210) who best demonstrates the elements of effective</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>interpersonal communication through active listening, demonstration of empathy and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>compassion to the client, and an understanding of the importance of the client’s</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>feelings, emotions and values in the clinical interview. No application required.</td>
<td></td>
</tr>
<tr>
<td>Andrew Leslie MacNabb Prize [C2031]</td>
<td>1 award of $200</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program and who</td>
<td>American Board of Veterinary Public Health</td>
</tr>
<tr>
<td></td>
<td></td>
<td>has the highest mark in veterinary public health inVETM<em>4620 VETM</em>4680 VETM*4940</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>or VETM*4720 (Health Management).</td>
<td></td>
</tr>
<tr>
<td>Andrew Smith Memorial Medal [C2060]</td>
<td>1 Medal</td>
<td>D.V.M. student who has successfully completed Phase 4 with the highest program</td>
<td>Friends and family of Andrew Smith</td>
</tr>
<tr>
<td></td>
<td></td>
<td>average at the end of Phase 4. The student's entire college career will be</td>
<td></td>
</tr>
<tr>
<td>Auxiliary to Ontario Veterinarians Scholarship [I2076]</td>
<td>1 award of $750</td>
<td>considered.</td>
<td>The Auxiliary to Ontario Veterinarians</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Endowed by the Auxiliary to Ontario Veterinarians, supporting the profession from</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1946 to 1990. Application is not required.</td>
<td></td>
</tr>
<tr>
<td>Aventix Animal Health Prize in Dentistry [C2149]</td>
<td>1 award of $250</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program who</td>
<td>Aventix Animal Health</td>
</tr>
<tr>
<td></td>
<td></td>
<td>has the highest mark in the Dentistry rotation of the course VETM*4610 or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>VETM<em>4660 or VETM</em>4920 (Small Animal Clinics).</td>
<td></td>
</tr>
<tr>
<td>Aventix Animal Health Prize in Ophthalmology [C2138]</td>
<td>1 award of $250</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program who</td>
<td>Aventix Animal Health</td>
</tr>
<tr>
<td></td>
<td></td>
<td>has the highest mark in the Ophthalmology rotation of the course VETM*4610 or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>VETM<em>4660 or VETM</em>4920 (Small Animal Clinics).</td>
<td></td>
</tr>
<tr>
<td>BarbB Crowe &amp; Don Kuzik Memorial Scholarship [I2155]</td>
<td>1 award of $1,000</td>
<td>Student who has completed Phase 3 of the D.V.M. program with a demonstrated</td>
<td>BarbB Crowe</td>
</tr>
<tr>
<td></td>
<td></td>
<td>exceptional commitment to teamwork and willingness to support classmates and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>colleagues, as selected by a vote of the Phase 4 class.</td>
<td></td>
</tr>
<tr>
<td>Beloved Friends Prize [C2007]</td>
<td>1 award of $8,000</td>
<td>Full-time students registered in Phase 1 or 2 of the DVM program who are</td>
<td>Mrs. Rose McBride</td>
</tr>
<tr>
<td></td>
<td></td>
<td>pursuing a research project related to veterinary parasitology or veterinary</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermatology during the summer months.</td>
<td></td>
</tr>
<tr>
<td>Betty Goldhart Scholarships in Medical Genetics [I2024]</td>
<td>1 award of $500</td>
<td>Student who has completed Phase 4 of the D.V.M. program and who has demonstrated</td>
<td>Mrs. Rose McBride</td>
</tr>
<tr>
<td></td>
<td></td>
<td>kindness and care in the treatment of animals in the medicine and surgery clinics.</td>
<td></td>
</tr>
<tr>
<td>Bill Taylor Memorial Scholarship [I0280]</td>
<td>1 award of $75 and 1 award of $100</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>AMF Canada Ltd.</td>
</tr>
<tr>
<td>CALAM/ACMAL Prize [I2078]</td>
<td>1 award of $900</td>
<td>Full-time students in Phase 1, 2, or 3 of the DVM program.</td>
<td></td>
</tr>
</tbody>
</table>

*IX. Scholarships and Other Awards, Doctor of Veterinary Medicine*
**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

**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 Human 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.'50, 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. Ian B. Johnstone Veterinary Physiology Prize [I2160]

Family and friends of Dr. Ian B. Johnstone (O.V.C. ’66) have established this memorial award to recognize his valued contribution to the teaching of physiology in the D.V.M. program at the Ontario Veterinary College. Application is not required.

**Donor(s):** Friends and family of Ian B. Johnstone  
**Qualification(s):** Full-time D.V.M. student who achieves the highest grade in the course VETM*3080 (Veterinary Physiology).  
**Amount:** 1 award of $500

Dr. J. Grant Savage (O.V.C.’48) Memorial Prize [I2140]

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 award 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, friends and colleagues of Dr. Jack Lange, O.V.C.’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. Jean Runney Memorial Scholarships [I2098]

Donated by the Hamilton Dog Obedience Club Incorporated in memory of Dr. Jean Runney (O.V.C.’39). Application is not required. One award of $600 (first place) and one of $400 (second place).

**Donor(s):** The Hamilton Dog Obedience Club Inc.  
**Qualification(s):** Students who have completed Phase 2 of the D.V.M. program, and 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. John Lindner Scholarship [I2126]

Donated by Kingsdale Animal Hospital and the family of Dr. John Lindner (O.V.C.’73) an esteemed companion animal practitioner and humanitarian. Application is not required.

**Donor(s):** Kingsdale Animal Hospital and the family of John Lindner  
**Qualification(s):** Student who has completed Phase 1 of the D.V.M. program. Recipient will be selected on the basis of academic performance in the course VETM*3070 Veterinary Anatomy.  
**Amount:** 1 award of $500

Dr. John Reeve-Newson Emergency Medicine 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 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 (O.V.C.’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 diagnostic ability of disease in food animals in the course VETM*4720 (Health Management).  
**Amount:** 1 award of $250

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 (O.V.C.’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

Dr. Wendy Parker Prize in Clinical Dermatology, sponsored by Aventix Animal Health [C2158]

Provided by Aventix Animal Health and recognizing the support of retired professor, Dr. Wendy Parker. Application is not required.

**Donor(s):** Aventix Animal Health  
**Qualification(s):** 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*4610 or VETM*4660 or VETM*4920 (Small Animal Clinics).  
**Amount:** 1 award of $250
Elsevier Prize [I0258]
Provided by Elsevier Science Canada. Application is not required.

Donor(s): Elsevier Science Canada

Qualification(s): Students completing Phase 3 of the D.V.M. program with the highest average in VETM*4460 (Food Animal Medicine and Surgery) and VETM*4470 (Medicine and Surgery of the Dog and Cat).

Amount: 1 prize of a $75 gift certificate for publications

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

F.W. Schofield Prize in Pathology [C2059]
Awarded by the Ontario Veterinary College, Department of Pathobiology to honour the memory of Dr. F. W. Schofield (O.V.C.`10), an honourable professional who attended Korea in 1916 to teach bacteriology and hygiene, due to his entire career, and to whom we owe the development and present use of the anticoagulant Coumarin in all phases of medicine. Application is not required.

Donor(s): Dr. F.W. Schofield

Qualification(s): Student completing Phase 4 of the D.V.M. program with the highest ranking in Pathology.

Amount: 1 award of $400

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

Grey Bruce Farmer’s Week Prize [C2168]
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*4680 or VETM*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, Ontario Veterinary College by May 1st of each year.

Donor(s): Grey County Agricultural Services

Qualification(s): Students who have completed Phase 4 of the DVM program at the Ontario Veterinary College who are entering, upon graduation, food animal practice in Grey or Bruce Counties.

Amount: 1 award 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

Hagen Pet Products Small Animal Scholarship [I2170]
Established to recognize a student who has consistently displayed exemplary community volunteer work in support of the health of small animals prior to admission to the program. Apply by October 15 with a letter, including resume and one supporting letter to the Office of the Associate Dean, O.V.C., Student Affairs.

Donor(s): Mr. Mark D. Hagen

Qualification(s): Students registered in Phase 1 of the Doctor of Veterinary Medicine Program at the Ontario Veterinary College.

Amount: 1 award of $1,000

Holstein Association of Canada Prize [C2026]
Presented by the Holstein Association of Canada. Application is not required.

Donor(s): Holstein Association of Canada

Qualification(s): Student who has successfully completed Phase 4 of the D.V.M. program who has the highest standing in bovine medicine based on VETM*3440 (Clinical Medicine II) and VETM*4870 (Clinical Medicine III), VETM*4710 (Large Animal Clinics) and VETM*4720 (Health Management).

Amount: 1 award of $400

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. Apply to Student Financial Services, by May 15, with a letter indicating involvement/extracurricular activity since entry to the University, academic and/or professional references, and a completed Financial Need Assessment Form (N.A.F.) for International Students form. 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%, and is registered at the time of application.

Amount: 1 award of $1,000
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 completed Phase 3 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 interest 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 VETM3120 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.’57. 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

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 $1,000

Kevin Durie Memorial Scholarship [IO653]
Established in memory of Kevin Durie, BA ’93, by his family and friends. The award will be made on the basis of outstanding service as a Residence Life staff member, 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. Apply by October 31st to Student Housing Services, Associate Director, Residence Life and Family Housing and include a letter of reference and personal statement.

**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 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

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.

**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

Luke Thomson Memorial Award [I2119]
Donated by Dr. Catherine Thomson-McGhie (O.V.C.’91). Article submission to the O.V.C. Awards Committee by October 15.

**Donor(s):** Dr. Catherine Thomson McGhie (OVC ’91)

**Qualification(s):** 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 published according to the Canadian Veterinary Journal format for Brief Communications.

**Amount:** 1 award of $500

Major James Rattray Proficiency Prizes [I2054]
Awarded by the College in memory of Major James Rattray. Application is not required.

**Donor(s):** James Rattray Estate

**Qualification(s):** D.V.M. students completing each of Phases 1, 2, and 3 with the second highest class standings for the Phase.

**Amount:** 3 awards of $200

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
<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Donor(s)</th>
<th>Qualification(s)</th>
<th>Amount:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merial Canada Inc. Prize of Merit [C2051]</td>
<td>Donated by Merial Canada Inc. Application is not required.</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program and who is judged to be the most proficient in their small animal medicine in the course VETM<em>4610 or VETM</em>4660 or VETM*4920 (Small Animal Clinics).</td>
<td>1 award of $200, 1 commemorative plaque</td>
</tr>
<tr>
<td>Merial Canada Inc. Scholarship [I2052]</td>
<td>Donated by Merial Canada Inc. Application is not required.</td>
<td>Student having completed Phase 2 of the D.V.M. program and who has the highest standing in the course VETM*3470 (Anesthesiology).</td>
<td>1 award of $200, 1 commemorative plaque</td>
</tr>
<tr>
<td>Molly Carrington (O.V.C. ’78) Memorial Prize [C2016]</td>
<td>Established by the Class of O.V.C. ’78, the Carrington Family and Friends in memory of Dr. Molly Carrington (O.V.C. ’78). Application is not required.</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 their Small Animal Clinic rotation (VETM<em>4610 or VETM</em>4660 or VETM*4920) and also demonstrated high standard of case care and compassion for his or her patients.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Norman W. Simmons Memorial Award [I2124]</td>
<td>Established in memory of Norman W. Simmons. Application is not required.</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>1 award of $500</td>
</tr>
<tr>
<td>Novartis Animal Health Inc. Scholarship [I2079]</td>
<td>Donated by Novartis. Application is not required.</td>
<td>Full-time students who has completed Phase 3 of the D.V.M. program.</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Ontario Association of Bovine Practitioners’ Prize [C2093]</td>
<td>Donated by the Ontario Association of Bovine Practitioners. Application is not required.</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>1 award of $750</td>
</tr>
<tr>
<td>Ontario Association of Swine Veterinarians’ Prize [I2147]</td>
<td>Presented by the Ontario Association of Swine Practitioners. Apply by letter, stating swine industry experience to date, and include the required essay, to the Associate Dean's, Students, O.V.C., by October 15. Selection will be based on the best essay submitted describing an issue facing the swine industry.</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 swine health management.</td>
<td>1 award of $250</td>
</tr>
<tr>
<td>Ontario Pork Producers’ Marketing Board Prize [C2041]</td>
<td>Donated by the Ontario Pork Producers’ Marketing Board. Application is not required.</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program and who has demonstrated proficiency in the study of swine diseases, based on performance in the course VETM*4710 (Large Animal Clinics).</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Ontario Veterinary College Class of 2008 Memorial Scholarship [I2169]</td>
<td>Established by the class of O.V.C. 2008 in memory of their classmates Tammi Weeke-Lentz and Daniel Siatkowski as a gesture of their great esteem for them and for their community involvement. Selection will be based on the student veterinarian who best demonstrates a strong commitment to service through involvement with, and contributions to, the community at large. One nominating and one supporting letter must be received in the Office of the Associate Dean's, Student by October 15.</td>
<td>Students who have successfully completed Phase 2 of the D.V.M. program.</td>
<td>1 award of $200</td>
</tr>
<tr>
<td>OSPCA Veterinary Student Prize [I2146]</td>
<td>Established by the Ontario Society for the Prevention of Cruelty to Animals in recognition of its 100th anniversary. Application is not required.</td>
<td>A student who has successfully completed Phase 3 of the D.V.M. program and has been selected by classmates as showing exceptional compassion toward, and interest, in animals. The recipient must be a resident of Ontario.</td>
<td>1 award of a $500 Gift Certificate of the University of Guelph bookstore.</td>
</tr>
<tr>
<td>OTS Delta Club Scholarship [I2039]</td>
<td>Donated by the OTS Delta Club from the Ontario Veterinary College. Application is not required.</td>
<td>A student who has completed Phase 3 of the D.V.M. program.</td>
<td>1 award of $300</td>
</tr>
<tr>
<td>Ottawa- Carleton 1983 International Ploughing Match (O.V.C.) Scholarships [I2094]</td>
<td>Selection will be based on involvement in extracurricular activities. Apply by letter to the O.V.C. Associate Dean’s, Students, by outlining extracurricular involvements by October 7.</td>
<td>Students from the City of Ottawa who have are registered in Phase I or II of the D.V.M. program with a minimum cumulative average of 70%.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>Out-of-Province Women’s Middle Distance Running Scholarship [I0635]</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>
<td>Students, O.V.C., by October 15. Selection will be based on the best essay submitted describing an issue facing the swine industry.</td>
<td>1 award of $1,500</td>
</tr>
<tr>
<td>OVC ’75 Prize in Memory of Aki Sasage [C2092]</td>
<td>Established by classmates and colleagues of Dr. 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.</td>
<td>Student who has successfully completed Phase 4 of the veterinary program with the highest standing in course VETM*4900 (Veterinary Externship).</td>
<td>1 award of $700</td>
</tr>
<tr>
<td>OVC Alumni Association Proficiency Prizes (Convocation) [C2045]</td>
<td>Presented by the O.V.C. Alumni Association. Application is not required. One best place award of $500, one 2nd place award of $300 and one 3rd place award of $200.</td>
<td>Students who have successfully completed Phase 4 of the D.V.M. program, who have the three highest program averages.</td>
<td>1 award of $500, 1 award of $300, 1 award of $200</td>
</tr>
<tr>
<td>Award Name</td>
<td>Donor(s)</td>
<td>Qualification(s)</td>
<td>Amount</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>OVC Alumni Association Proficiency Prizes (In-course) [I2048]</td>
<td>OVC Alumni Association</td>
<td>D.V.M. students successfully completing Phases 1, 2, and 3 with the highest class standing for the Phase.</td>
<td>3 awards of $500</td>
</tr>
<tr>
<td>OVC Spirit Prize [10469]</td>
<td>The Ontario Veterinary College Alumni Association</td>
<td>Student in Phase 2 of the D.V.M. program based on contributions to the O.V.C. community and his or her demonstration of leadership, sportsmanship, and the ability to get and keep his or her classmates involved in the O.V.C. community during Phase 1. The recipient will be selected on the basis of a class vote.</td>
<td>1 award of $100</td>
</tr>
<tr>
<td>OVMA Animal Behaviour and Welfare Award [I2095]</td>
<td>Ontario Veterinary Medical Association</td>
<td>Student who has completed Phase 2 of the D.V.M. program with the highest grade in the animal behaviour component of the course VETM*4140 (Health Management II).</td>
<td>1 award of $250</td>
</tr>
<tr>
<td>OVMA-Erie Herd Health and Population Medicine Prize [C2081]</td>
<td>Ontario Veterinary Medical Association</td>
<td>Student who has completed Phase 4 of the D.V.M. program with the highest average in VETM<em>4720 or VETM</em>4680 (Health Management).</td>
<td>1 award of $500</td>
</tr>
<tr>
<td>Peggy McKay Prize in Feline Medicine [C2171]</td>
<td>Mr. Ian McKay</td>
<td>Student who has successfully completed Phase 4 of the D.V.M. program who played varsity sport at the University of Guelph while a student registered in any program.</td>
<td>1 award of $1,000</td>
</tr>
<tr>
<td>Pfizer Animal Health Case Report Prizes [C2111]</td>
<td>Pfizer Canada Animal Health Group</td>
<td>Students who have successfully completed Phase 4 of the D.V.M. program.</td>
<td>2 awards of $500</td>
</tr>
<tr>
<td>Pfizer Animal Health Company Prizes [C2055]</td>
<td>Pfizer Company of Canada</td>
<td>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<em>4670 or VETM</em>4930 or VETM<em>4710) and greatest proficiency in small animal surgery in their Small Animal Clinic rotation (VETM</em>4610 or VETM<em>4660 or VETM</em>4920)</td>
<td>1 award of $150, 1 award of $100</td>
</tr>
<tr>
<td>Pfizer Scholarship [I2049]</td>
<td>Pfizer Animal Health, Pfizer Canada Inc.</td>
<td>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.</td>
<td>2 awards of $600</td>
</tr>
<tr>
<td>Pfizer Summer Student Research Scholarship [I2177]</td>
<td>Pfizer Canada Animal Health Group</td>
<td>Full-time students registered in Phase 1 or 2 of the D.V.M program who are pursuing a research project related to veterinary small animal parasitology and/or vaccinology in shelter medicine and/or Dexamethomid anesthetic sedation during the summer months.</td>
<td>1 award of $8,000</td>
</tr>
<tr>
<td>Robert Walker Memorial Scholarship [I2071]</td>
<td>OVC '78</td>
<td>Student who has completed Phase 1 of the D.V.M. program with the highest standing in VETM*3070 (Veterinary Anatomy).</td>
<td>1 award of $150</td>
</tr>
<tr>
<td>Royal Canadian Army Veterinary Corps Prize [I2097]</td>
<td>Colonel C.E. Edgett (O.V.C. 1906). Established by Timothy Sprung, CSS BA '90. Recipients will be selected based on demonstrated athleticism and leadership qualities. Coaches will nominate students to the Athletics Awards Committee. Application is not required.</td>
<td>Students who have completed Phase 1 of the D.V.M. program and have demonstrated highest achievement and leadership qualities.</td>
<td>1 award of $350</td>
</tr>
<tr>
<td>Small Ruminant Veterinarians of Ontario Prize [C0729]</td>
<td>Small Ruminant Veterinarians of Ontario</td>
<td>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<em>4680 or VETM</em>4720, respectively), the Ruminant Health Management Small Ruminant module in the course Health Management III (VETM<em>4530), and the small ruminant section in the course Food-Animal Medicine &amp; Surgery, VETM</em>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.</td>
<td>1 award of $200</td>
</tr>
<tr>
<td>Sprung Family Men's Basketball Scholarship [I0672]</td>
<td>Mr. Timothy Sprung</td>
<td>Student who is a current member of the Men's basketball team and has achieved a minimum 70% average in the previous academic year.</td>
<td>1 award of $3,500</td>
</tr>
</tbody>
</table>
**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 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):** 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.

**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 anesthesia 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

**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 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 Hoven 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 Hoven & 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 group of practices, 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):** 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.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 large animal medicine and surgery in their Large Animal Clinic rotation (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

#### 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.

**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

**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 $5,000

#### John B. Walkden and Malcolm T. Bond Prize [I2512]

Established by John B. Walkden and Malcolm T. Bond, with the assistance of the Ontario government's OSOTF program. The recipient will have been judged to be proficient in bovine 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. ACCESS AWARD.

**Donor(s):** The family of the late Howard N.B. Dorfman

**Qualification(s):** 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).

**Amount:** 1 award of $250

#### 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

**Donor(s):** Ms. Caroline Iwasaki

**Qualification(s):** 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).

**Amount:** 1 award of $4,500

#### Howard N.B. Dorfman Scholarship [I2520]

Established by the family of the late Howard N.B. Dorfman (O.V.C.'78), 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 family of the late Howard N.B. Dorfman

**Qualification(s):** Student in Phase 4 of the D.V.M. program and 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).

**Amount:** 1 award of $500

#### OVC Class of 1977 Memorial Scholarship [I2510]

The Class of O.V.C. 1977, 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

**Donor(s):** OVC '77

**Qualification(s):** 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. Additionally, students must meet the government-mandated terms for receipt of an OSOTF award (see General Statements on Awards).

**Amount:** 1 award of $800

#### OVC ‘59 50th Anniversary Leadership Scholarship [I2174]

The class of OVC ‘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.

**Donor(s):** The Class of OVC ‘59

**Qualification(s):** Students enrolled in Phase 2 of the DVM program at the Ontario Veterinary College who have demonstrated financial need.

**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. ACCESS AWARD

**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
**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  
**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:** 1 award of $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 by letter to the Centre for Students with Disabilities by November 25 and submit a completed Financial Need Assessment Form to Student Financial Services.

**Donor(s):** The Giuliani Family  
**Qualification(s):** Most academically promising applicant with a demonstrated disability and having financial need.

**Amount:** 1 award of $880

**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.  
**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 $1,000

**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  
**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

**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.  
**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  
**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 [I2507]**

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  
**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 [I2011]**

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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Class of '72: 25th Reunion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</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>Amount:</td>
<td>3 awards of $1,000</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Alumni and Friends of OVC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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 OSOTF award (see General Statements on Awards).</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards of varying amounts</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mrs. Virginia Fitzgerald</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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>Amount:</td>
<td>Several awards of varying amounts</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Dora Gross</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students enrolled in the D.V.M. program with a satisfactory academic performance and a demonstrated need of financial assistance.</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $500</td>
</tr>
</tbody>
</table>

### Dr. Martin DeForest Memorial Bursary [12157]

Established by family and friends of Dr. Martin DeForest, O.V.C. '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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Friends and Family of Dr. Martin DeForest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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>Amount:</td>
<td>1 award of $450</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Ross C. Croucher, OVC '50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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).</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $800</td>
</tr>
</tbody>
</table>

### 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. ACCESS AWARD.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Friends of Edith B. Williams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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>Amount:</td>
<td>1 award of $300</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 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Mrs. Elizabeth Burton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</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>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards of up to $2000</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Essex County Veterinary Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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).</td>
</tr>
<tr>
<td>Amount:</td>
<td>1 award of $500</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Estate of Gloria Lemieux</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>Students enrolled in the D.V.M. program who have a record of satisfactory academic performance and demonstrated need of financial assistance.</td>
</tr>
<tr>
<td>Amount:</td>
<td>Several awards of varying amounts</td>
</tr>
</tbody>
</table>

### Grant and Muriel Crittenden Bursaries [12018]

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.

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>The estate of Grant and Muriel Crittenden</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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>Amount:</td>
<td>Several varies</td>
</tr>
</tbody>
</table>

### Grant Misener Bursaries [12538]

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 endowed 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

<table>
<thead>
<tr>
<th>Donor(s):</th>
<th>Dr. Andrew Grant Misener (O.V.C.'38)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s):</td>
<td>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>Amount:</td>
<td>Several varies</td>
</tr>
</tbody>
</table>
IX. Scholarships and Other Awards, Doctor of Veterinary Medicine

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.
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 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

Harriet Bilsley Bursary [I2144]
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 Harriet Bilsley
Qualification(s): Student enrolled in the D.V.M. program with a record of satisfactory academic performance and demonstrated financial need.
Amount: 2 awards of $900

Helen Davidson Memorial Bursary [I2509]
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

Donor(s): Established by Gladys M. Davidson
Qualification(s): 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).
Amount: 8 awards of $1,000

Hill’s Bursary [I2511]
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

Donor(s): Hill’s Pet Nutrition Canada Inc.
Qualification(s): 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).
Amount: 1 award of $1,500

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.

Donor(s): The Estate of Howard and Myrtle Rogers
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

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
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 of $5,000

Last Revision: March 15, 2014
Lesley Lewisohn Stewart Bursary [12064]
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 [12503]
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  
**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 [11284]
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  
**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 [12099]
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 [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 Veterinary Medical Association Bursary [12505]
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  
**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 [12591]
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  
**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 [12116]
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 OVC ’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 [12143]
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. ACCESS AWARD

**Donor(s):** The Class of OVC ’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

OVC ’55 Bursaries [12508]
Established by the Class of O.V.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):** OVC ’55  
**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:** 5 awards of $500

OVC’49 and Dr. Ray Cormack Bursaries [12504]
Established by the Class of O.V.C.’49 and Dr. Ray Cormack (O.V.C.’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

**Donor(s):** OVC ’49-Cormack Fund  
**Qualification(s):** 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).

**Amount:** 5 awards of $1,000

Pearl and Percy Kaine Bursaries [12500]
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

**Donor(s):** Pearl and Percy Kaine Bursaries  
**Qualification(s):** 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).

**Amount:** 4 awards of $2,500
<table>
<thead>
<tr>
<th>IX. Scholarships and Other Awards, Doctor of Veterinary Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pfizer Bursaries [I2506]</strong></td>
</tr>
<tr>
<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>
</tr>
</tbody>
</table>
| **Donor(s):** Pfizer Canada Inc.  
**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:** 3 awards of $1,000 |
| **Robert Auger Humanitarian Bursary [I3058]**                |
| This award, of up to $500, has been established through the generosity of 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 |
| **Robinson Memorial Bursary [I2118]**                       |
| 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. |
| **Donor(s):** Mrs. Barbara Robinson  
**Qualification(s):** Student enrolled in the D.V.M. program with a record of satisfactory academic performance and demonstrated financial need.  
**Amount:** Several varies |
| **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  
**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 |
| **Sigmund Samuel Goodman Memorial Bursary [I2050]**          |
| 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. |
| **Donor(s):** Dr. Robert Bennett  
**Qualification(s):** Students enrolled in the D.V.M. program with a satisfactory academic performance and a demonstrated need of financial assistance.  
**Amount:** Several varies |
| **Thibeault Bursaries [I2067]**                              |
| 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. |
| **Donor(s):** Dr. C. Thibeault  
**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 |
| **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  
**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  
**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 (M.E.T-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 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

**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  
**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

**Ontario International Education Opportunity Scholarship (OIEOS)** ([T0614](#))

On August 31, 2006, the Minister of Training, Colleges and Universities, Christopher Bentley announced plans to award scholarships to eligible students wishing to pursue studies abroad. The scholarships will be awarded on a combination of financial need and academic merit, with special consideration given to Aboriginal students, francophone students and students with disabilities. Students must be participating in a university approved travel abroad program. Apply by submitting the completed OIEOS application form to Student Financial Services by June 30.

**Donor(s):** Government of Ontario  
**Qualification(s):** Canadian citizens, permanent residents, or a protected person registered in a minimum of 1.5 credits in any degree program. Students must have completed a minimum 3.0 credits with a minimum 70.0% program average and demonstrated financial need.

**Amount:** approximately 71 awards of $2,500

**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)  
**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 OJTSS award (see General Statements on Awards).

**Amount:** 1 award of $350

**OVC Alumni Association Travel Scholarship** ([T2044](#))

Established to support D.V.M. students with their summer work/study programs being carried out abroad. Apply to the office of the O.V.C. Associate Dean's, Students before the December holiday break in Phase 3, with a CV, reference from at least one O.V.C. instructor and a letter indicating that satisfactory arrangements have been made for the summer work/study. Selection will be made on the merits of the proposed work/study and consideration will be given to the applicant's qualities of leadership, integrity, personality and communication skills.

**Donor(s):** OVC Alumni Association  
**Qualification(s):** Student registered in Phase 3 of the D.V.M. program with high academic standing and is planning to study/work outside of Canada during the summer months prior to the start of Phase 4.

**Amount:** 1 award of $1,500

**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  
**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

**Vétoquinol Travel Scholarship in Avian Medicine** ([T2163](#))

Vétoquinol N-A Inc. established this award to support a D.V.M. student attending the annual Association of Avian Veterinarians Conference. Selection will be made based on the student's academic performance in Comparative Medicine (VETM4480), combined with the extent and quality of demonstrated interest and experience in avian medicine. 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.

**Donor(s):** Vétoquinol N-A Inc.  
**Qualification(s):** Full-time D.V.M. students who have completed Phase 3 and are planning on attending the annual Association of Avian Veterinarians Conference.

**Amount:** 1 award of $1,000

---

Last Revision: March 15, 2014
### Vetoquinol Travel Scholarship in Bovine Reproduction [T2162]

Vetoquinol 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.

**Donor(s):** Vetoquinol N-A Inc.

**Qualification(s):** Full-time D.V.M. student planning to attend the annual Society of Theriogenology Conference

**Amount:** 1 award of $1,000
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 demonstratedly 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

Open Learning programs

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.

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

International Student Loan Fund
Mrs. Norma L. Valeriote has made available a loan fund for 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. Apply to the International Student Advisor.

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>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Adult Development</td>
<td>ADEV</td>
<td>BASC</td>
<td></td>
<td></td>
<td>BASC</td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>AGR</td>
<td>BSAG</td>
<td>BAS</td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Agricultural Science</td>
<td>AGRS</td>
<td>BSAG</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Animal Biology</td>
<td>ABOI</td>
<td>BSC</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Animal Science</td>
<td>ANSC</td>
<td>BSAG</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Anthropology</td>
<td>ANTH</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Applied Human Nutrition</td>
<td>AHN</td>
<td>BASC</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Applied Mathematics &amp; Statistics</td>
<td>APMS:C</td>
<td></td>
<td></td>
<td></td>
<td>BSC</td>
<td></td>
</tr>
<tr>
<td>Applied Plant Science</td>
<td>APS:CL</td>
<td>BSCH.PLSC</td>
<td></td>
<td></td>
<td>BSC</td>
<td></td>
</tr>
<tr>
<td>Art History</td>
<td>ARTH</td>
<td>BA</td>
<td>BA</td>
<td>BA</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Biochemistry</td>
<td>BIOC</td>
<td>BSC</td>
<td>BSC</td>
<td>BSC</td>
<td>BSC</td>
<td></td>
</tr>
<tr>
<td>Biodiversity</td>
<td>BIOD</td>
<td>BSC</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Biological &amp; Medical Physics</td>
<td>BMPH</td>
<td>BSC</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Biological and Pharmaceutical Chemistry</td>
<td>BPCH</td>
<td>BSC</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Biological Engineering</td>
<td>BIOE</td>
<td>BENG</td>
<td></td>
<td></td>
<td>BENG</td>
<td></td>
</tr>
<tr>
<td>Biological Science</td>
<td>BIOS</td>
<td>BSC</td>
<td></td>
<td></td>
<td>BSC</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>BIOL</td>
<td></td>
<td>BSC</td>
<td>BAS</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Bio-Medical Science</td>
<td>BIOM</td>
<td>BSC</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>BME</td>
<td>BENG</td>
<td></td>
<td></td>
<td>BENG</td>
<td></td>
</tr>
<tr>
<td>Biotechnology</td>
<td>BIOT</td>
<td>BSC</td>
<td>BSC</td>
<td>BSC</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Botany</td>
<td>BOT</td>
<td></td>
<td>BA</td>
<td>BAS</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Business Administration</td>
<td>BADM</td>
<td></td>
<td>BA</td>
<td>BAS</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Chemical Physics</td>
<td>CHPY</td>
<td>BSC</td>
<td></td>
<td></td>
<td>BSC</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHEM</td>
<td>BSC</td>
<td>BSC</td>
<td>BSC</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Child, Youth and Family</td>
<td>CYF</td>
<td>BASC</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Classical Studies</td>
<td>CLAS</td>
<td>BA</td>
<td>BA</td>
<td>BAS</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>CENG</td>
<td>BENG</td>
<td></td>
<td></td>
<td>BENG</td>
<td></td>
</tr>
<tr>
<td>Computer Science</td>
<td>CS</td>
<td>BCOMP</td>
<td></td>
<td></td>
<td>BCOMP</td>
<td></td>
</tr>
<tr>
<td>Computing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BCOMP</td>
</tr>
<tr>
<td>Computing &amp; Information Science</td>
<td>CIS</td>
<td></td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Criminal Justice &amp; Public Policy</td>
<td>CJP</td>
<td>BA</td>
<td>BA</td>
<td>BAS</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Crop, Horticulture and Turfgrass Sciences</td>
<td>CHAT</td>
<td>BSAG</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Ecology</td>
<td>ECOL</td>
<td>BSES</td>
<td>BSC</td>
<td>BAS</td>
<td>BSES</td>
<td></td>
</tr>
<tr>
<td>Economic &amp; Business Development</td>
<td>EBD</td>
<td></td>
<td></td>
<td></td>
<td>BAH.ID</td>
<td></td>
</tr>
<tr>
<td>Economics</td>
<td>ECON</td>
<td>BA</td>
<td>BA</td>
<td>BAS</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Engineering Systems &amp; Computing</td>
<td>ESC</td>
<td>BENG</td>
<td></td>
<td></td>
<td>BENG</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>ENGL</td>
<td>BA</td>
<td>BA</td>
<td>BAS</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Specialization Name</td>
<td>Specialization Acronym</td>
<td>Honours Program Major</td>
<td>Honours Program Minor</td>
<td>Honours Program Area of Emphasis</td>
<td>General Program</td>
<td>Co-op Program</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>------------------------</td>
<td>-----------------------</td>
<td>-----------------------</td>
<td>----------------------------------</td>
<td>----------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Environmental Biology</td>
<td>ENVB</td>
<td>BSC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment &amp; Development</td>
<td>EAD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Economics &amp; Policy</td>
<td>EEP</td>
<td>BSES</td>
<td></td>
<td></td>
<td>BAH.ID</td>
<td></td>
</tr>
<tr>
<td>Environmental Engineering</td>
<td>ENVE</td>
<td>BENG</td>
<td>BENG</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Geoscience &amp; Geomatics</td>
<td>EGG</td>
<td>BSC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Governance</td>
<td>EGOV</td>
<td>BA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Management</td>
<td>EM</td>
<td>BBRM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment and Resource Management</td>
<td>ERM</td>
<td>BSES</td>
<td></td>
<td></td>
<td>BSES</td>
<td></td>
</tr>
<tr>
<td>Environmental Sciences</td>
<td>ENVS</td>
<td>BSES</td>
<td></td>
<td></td>
<td>BSES</td>
<td></td>
</tr>
<tr>
<td>Equine Management</td>
<td>EQM</td>
<td>BBRM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethics in Life Sciences</td>
<td>ELS</td>
<td>BA</td>
<td>BAS</td>
<td></td>
<td>BAH.ID</td>
<td></td>
</tr>
<tr>
<td>European Culture &amp; Civilization</td>
<td>ECC</td>
<td>BA</td>
<td>BAS</td>
<td></td>
<td>BAH.EURS</td>
<td></td>
</tr>
<tr>
<td>European Business Studies</td>
<td>EBS</td>
<td>BA</td>
<td></td>
<td></td>
<td>BAH.EURS</td>
<td></td>
</tr>
<tr>
<td>European Studies</td>
<td>EURS</td>
<td>BA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Experimental Ecology</td>
<td>EECO</td>
<td>BSCH.ECOL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Family &amp; Child Studies</td>
<td>FCS</td>
<td>BA</td>
<td>BAS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finance</td>
<td>FIN</td>
<td></td>
<td></td>
<td></td>
<td>BCOMM.MEF</td>
<td>BCOMM</td>
</tr>
<tr>
<td>Food and Agricultural Business</td>
<td>FAB</td>
<td>BCOMM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food, Agricultural and Resource Economics</td>
<td>FARE</td>
<td>BA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food Engineering</td>
<td>FENG</td>
<td></td>
<td></td>
<td></td>
<td>BENG</td>
<td></td>
</tr>
<tr>
<td>Food Science</td>
<td>FOOD</td>
<td>BSC</td>
<td></td>
<td></td>
<td>BSC</td>
<td></td>
</tr>
<tr>
<td>French Studies</td>
<td>FREN</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gender and Development</td>
<td>GAD</td>
<td></td>
<td></td>
<td></td>
<td>BAH.ID</td>
<td></td>
</tr>
<tr>
<td>General Ecology</td>
<td>GEOO</td>
<td>BSCH.ECOL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIS &amp; Environmental Analysis</td>
<td>GIS</td>
<td></td>
<td></td>
<td></td>
<td>BSC</td>
<td></td>
</tr>
<tr>
<td>Geography</td>
<td>GEOG</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>German</td>
<td>GERM</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic Studies</td>
<td>HISP</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Historical Perspectives in Development</td>
<td>HPD</td>
<td></td>
<td></td>
<td></td>
<td>BAH.ID</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td>HIST</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hotel &amp; Food Administration</td>
<td>HAFA</td>
<td>BCOMM</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Human Kinetics</td>
<td>HK</td>
<td>BSC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual Studies</td>
<td>IS</td>
<td>BA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Systems &amp; Human Behaviour</td>
<td>ISHB</td>
<td>BA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International Development</td>
<td>ID</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interpretive Ecology</td>
<td>IE</td>
<td></td>
<td></td>
<td></td>
<td>BSCH.ECOL</td>
<td></td>
</tr>
<tr>
<td>Italian</td>
<td>ITAL</td>
<td>BA</td>
<td>BAS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landscape Architecture</td>
<td>LAS</td>
<td></td>
<td></td>
<td></td>
<td>BAH.ID</td>
<td></td>
</tr>
<tr>
<td>Latin American Studies</td>
<td>LOM</td>
<td>BCOMM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leadership and Organizational Management</td>
<td>LOM</td>
<td>BCOMM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marine &amp; Freshwater Biology</td>
<td>MFB</td>
<td>BSC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management Economics &amp; Finance</td>
<td>MEF</td>
<td>BCOMM</td>
<td></td>
<td></td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Marketing Management</td>
<td>MKMN</td>
<td>BCOMM</td>
<td>BA</td>
<td>BAS</td>
<td>BCOMM</td>
<td></td>
</tr>
<tr>
<td>Mathematical Economics</td>
<td>MAEC</td>
<td>BA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specialization Name</td>
<td>Specialization Acronym</td>
<td>Honours Program Major</td>
<td>Honours Program Minor</td>
<td>Honours Program Area of Emphasis</td>
<td>General Program</td>
<td>Co-op Program</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>------------------------</td>
<td>-----------------------</td>
<td>-----------------------</td>
<td>----------------------------------</td>
<td>-----------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Mathematical Science</td>
<td>MSCI</td>
<td>BSC</td>
<td>BAS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>MATH</td>
<td>BA</td>
<td>BSC</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
</tr>
<tr>
<td>Microbiology</td>
<td>MICR</td>
<td>BSC</td>
<td>BAS</td>
<td>BSC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>MECH</td>
<td>BENG</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Biology &amp; Genetics</td>
<td>MBG</td>
<td>BSC</td>
<td>BAS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Museum Studies</td>
<td>MS</td>
<td>BA</td>
<td>BAS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music</td>
<td>MUSC</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nanoscience</td>
<td>NANO</td>
<td>BSC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neuroscience</td>
<td>NEUR</td>
<td>BSC</td>
<td>BAS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nutritional &amp; Nutraceutical Sciences</td>
<td>NANS</td>
<td>BSC</td>
<td>BAS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organic Agriculture</td>
<td>OAGR</td>
<td>BSAG</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philosophy</td>
<td>PHIL</td>
<td>BA</td>
<td>BA</td>
<td>BAS</td>
<td></td>
<td>BA</td>
</tr>
<tr>
<td>Physical Science</td>
<td>PSCI</td>
<td>BSC</td>
<td></td>
<td>BSC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td>PHYS</td>
<td>BSC</td>
<td>BAS</td>
<td>BSC</td>
<td></td>
<td>BSC</td>
</tr>
<tr>
<td>Plant Biotechnology</td>
<td>PBTC</td>
<td></td>
<td>BSCH.PLSC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plant Environmental Science</td>
<td>PESC</td>
<td></td>
<td>BSCH.PLSC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plant Science</td>
<td>PLSC</td>
<td>BSC</td>
<td>BAS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Political Economy &amp; Administrative Change</td>
<td>PEAC</td>
<td></td>
<td></td>
<td>BAH.ID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Political Science</td>
<td>POLS</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td>PSYC</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychology: Brain &amp; Cognition</td>
<td>PBC</td>
<td>BSC</td>
<td>BAS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Management</td>
<td>PMGT</td>
<td>BCOMM</td>
<td></td>
<td>BCOMM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Real Estate &amp; Housing</td>
<td>REH</td>
<td>BCOMM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource Conservation</td>
<td>RC</td>
<td></td>
<td>BSCH.ECOL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rural &amp; Agricultural Development</td>
<td>RAD</td>
<td></td>
<td></td>
<td>BAH.ID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sociology</td>
<td>SOC</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Software Engineering</td>
<td>SENG</td>
<td>BCOMP</td>
<td></td>
<td>BCOMP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td>STAT</td>
<td>BA</td>
<td>BSC</td>
<td>BAS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theatre Studies</td>
<td>THST</td>
<td>BA</td>
<td>BAS</td>
<td>BA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theoretical Physics</td>
<td>THPY</td>
<td>BSC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tourism Management</td>
<td>TMGT</td>
<td>BCOMM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toxicology</td>
<td>TOX</td>
<td>BSC</td>
<td></td>
<td>BSC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Veterinary Medicine</td>
<td>DVM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Resources Engineering</td>
<td>WRE</td>
<td>BENG</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wildlife Biology &amp; Conservation</td>
<td>WBC</td>
<td>BSC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zoology</td>
<td>ZOO</td>
<td>BSC</td>
<td>BAS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Bachelor of Applied Science (B.A.Sc.)

Program Information

The University of Guelph offers an 8 semester (20.00 credits) honors 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)
- Applied Human Nutrition (AHN)
- Child, Youth and Family (CYF)

Co-operative Education is available in the following programs:

- Adult Development (Co-op) (ADEV.C)
- Child, Youth and Family (Co-op) (CYF.C)

Elective offerings enable students to select courses which support or complement their primary field of study.

The program is interdisciplinary and provides a distinctive and integrated focus of applied social science in each of the 3 majors. Courses from the traditional disciplines in other departments in the University are coupled with courses offered by faculty members in the Department of Family Relations and Human Development whose own backgrounds reflect the interdisciplinary nature of the program. 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 $50 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 11.00 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/10/10/current undergraduate/2011-12/c10/c10ba.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/ uais/students_faculty.shtml or contact the B.A.Sc. Program Counsellor for further information.

Major

Semester 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*1100</td>
<td>[0.50]</td>
<td>Life: Health and Well-Being</td>
</tr>
<tr>
<td>NUTR*1010</td>
<td>[0.50]</td>
<td>Nutrition and Society</td>
</tr>
<tr>
<td>PSYC*1200</td>
<td>[0.50]</td>
<td>Dynamics of Behaviour</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH*1150</td>
<td>[0.50]</td>
<td>Introduction to Anthropology</td>
</tr>
<tr>
<td>SOC*1100</td>
<td>[0.50]</td>
<td>Sociology</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Semester 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*1010</td>
<td>[0.50]</td>
<td>Human Development</td>
</tr>
<tr>
<td>FRHD*1020</td>
<td>[0.50]</td>
<td>Couple and Family Relationships</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOM*2000</td>
<td>[0.50]</td>
<td>Concepts in Human Physiology</td>
</tr>
<tr>
<td>MBG*1000</td>
<td>[0.50]</td>
<td>Genetics and Society</td>
</tr>
<tr>
<td>1.00 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Semester 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*2060</td>
<td>[0.50]</td>
<td>Adult Development and Aging</td>
</tr>
</tbody>
</table>
Students interested in study abroad experience could consider this in either Semester 5 or Semester 6. Students interested in study abroad experience could consider this in either Semester 5 or Semester 6. Students who intend to pursue studies or careers in the following areas, Adult Development and Aging, Family and Social Relations, Human Sexuality and Health or Research may wish to include electives from the following lists:

**Adult Development and Aging Interest**

- FRHD*3060 [0.50] Principles of Social Gerontology
- FRHD*4160 [0.50] Family Relations in Gerontology
- FRHD*4190 [0.50] Assessment in Gerontology
- FRHD*4290 [1.00] Practicum I: Adult Development

**Family and Social Relations Interest**

- FRHD*3090 [0.50] Poverty and Health
- FRHD*4020 [0.50] Family Theory
- FRHD*4290 [1.00] Practicum II: Adult Development

**Human Sexuality and Health Interest**

- FRHD*4200 [0.50] Issues in Human Sexuality
- FRHD*4290 [1.00] Practicum II: Adult Development
- NUTR*3150 [0.50] Aging and Nutrition
- PSYC*3690 [0.50] Community Mental Health

**Research Interest**

- FRHD*4810 [0.50] Thesis I
- FRHD*4910 [1.00] Thesis II

**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 Adult Development 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. 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.

**Exchange/Study Abroad Opportunities**

Students interested in study abroad experience could consider this in either Semester 5 or 7. If it is in Semester 5, then students could defer FRHD*3400 to Winter Semester 6 with the Practicum FRHD*3290 (with permission). If the study abroad experience is preferred in Semester 7, the Professional Issues course (FRHD*4310) could be taken in Semester 5 (with permission).

**Adult Development (Co-op) (ADEV:C)**

Department of Family Relations and Applied Nutrition, College of Social and Applied Human Sciences.
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*1050 [0.50] General Chemistry I
- FRHD*1100 [0.50] Life: Health and Well-Being
- PSYC*1200 [0.50] Dynamics of Behaviour

One of:
- 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
- PSYC*1100 [0.50] Principles of Behaviour

One of:
- HTM*2700 [0.50] Introductory Foods
- NUTR*1010 [0.50] Nutrition and Society

One of:
- FRHD*1020 [0.50] Couple and Family Relationships
- SOC*1100 [0.50] Sociology

0.50 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

One of:
- CIS*1200 [0.50] Introduction to Computing
- MCS*2020 [0.50] Marketing Information Management

**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*2000 [0.50] Concepts in Human Physiology
- FRHD*3070 [0.50] Research Methods: Family Studies

1.50 electives or restricted electives

* students planning to apply for a dietetic internship must take HTM*1390. HTM*1390 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 [0.75] Nutritional Assessment
- NUTR*4040 [0.75] Clinical Nutrition II
- NUTR*4070 [0.50] Nutrition Education

0.50 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 14.00 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*2410 [0.50] Introduction to Food Processing
- FOOD*2420 [0.50] Introduction to Food Microbiology
- FOOD*3030 [0.50] Food Chemistry I
- FOOD*3040 [0.50] Food Chemistry II
### Electives

There are 4.50 electives throughout the major which may be fulfilled by elective 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 selecting 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 12.00 required credits and 0.50 restricted electives to a minimum of 20.00 passed credits. Students are encouraged to plan their 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 sequencing. 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*1100</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*1010</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*1200</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 electives

**Semester 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM*2000</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*1020</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*1000</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*2260</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*2280</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 electives

**Semester 3**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*2100</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Semester 4**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*2110</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*3150</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*2060</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*2270</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 electives

**Semester 5**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*3180</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*3400</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*3200</td>
<td>1.00</td>
</tr>
<tr>
<td>FRHD*3250</td>
<td>1.00</td>
</tr>
</tbody>
</table>

0.50 electives

**Semester 6**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*3040</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*3120</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.50 electives

**Semester 7**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*4310</td>
<td>0.50</td>
</tr>
</tbody>
</table>

2.00 electives or restricted electives

**Semester 8**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*4320</td>
<td>0.50</td>
</tr>
</tbody>
</table>

2.00 electives or restricted electives

#### Restricted Electives

In addition to the 12.00 required credits, 0.50 must be taken from the Department of Family Relations and Applied Nutrition at the 4000 level. (excluding FRHD*4170).

**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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*22300</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*2270</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*2280</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*3250</td>
<td>1.00</td>
</tr>
<tr>
<td>FRHD*4170</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Practicum - Child, Youth and Family (in a placement site designated as Youth)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*4180</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Assessment and Intervention

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*4400</td>
<td>0.50</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDRD*3120</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*3090</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*3190</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*4020</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*4200</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*4810</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*4910</td>
<td>1.00</td>
</tr>
<tr>
<td>NUTR*2050</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3440</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3450</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3710</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3720</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3850</td>
<td>0.50</td>
</tr>
<tr>
<td>SOAN*2290</td>
<td>0.50</td>
</tr>
<tr>
<td>SOC*1500</td>
<td>0.50</td>
</tr>
<tr>
<td>SOC*3040</td>
<td>0.50</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*2040</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*2260</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*2270</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*3190</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*3200</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Practicum - Child
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 12.00 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*1200 [0.50] Dynamics of Behaviour

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*2100 [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

**Semester 4**

- FRHD*2110 [0.50] Exceptional Children and Youth
- FRHD*3120 [0.50] Families in Canadian Context
- 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

**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*4320 [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, Geograph, 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 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):

- BIOL*1020 [0.50] Introduction to Biology
- BIOL*1500 [0.50] Humans in the Natural World
- BJOM*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
- ENVB*2210 [0.50] Introductory Apiculture
- 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
- GEOL*1050 [0.50] Geology and the Environment
- GEOL*1100 [0.50] Principles of Geology
- 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
- SOIL*2010 [0.50] Soil Science

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
- GEOL*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
- MET*2030 [0.50] Meteorology and Climatology
- 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), the Department of Computing and Information 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 Computing and Information Science, Mathematics or Statistics, must take a minimum of 12.00 credits from either or both of the departments in the College of Arts and 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).

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*1100, PSYC*1200
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 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
Theatre Studies

X. Degree Programs, Bachelor of Arts (B.A.)

2011-2012 Undergraduate Calendar Last Revision: March 15, 2014
The schedule of studies for each area of concentration is given on the following pages under its subject heading.

Honours Program Majors

Anthropology
Applied Mathematics and Statistics
Art History
Classical Studies
Criminal Justice and Public Policy
Economics

Environmental Governance
European Studies
Food, Agriculture and Resource Economics
French Studies
Geography
Hispanic Studies
History
Individual Studies
Information Systems and Human Behaviour
International Development
Mathematical Economics
Mathematics
Music
Philosophy
Political Science
Psychology
Sociology
Statistics
Studio Art
Theatre Studies

Subjects marked with an asterisk (*) may be available as Co-operative Education programs. The schedule of studies for each major is given on the following pages under its subject heading.

Honours Program Minors

Anthropology
Art History
Art Theory and Criticism
Business Administration
Classical Studies
Computing and Information Science
Criminal Justice and Public Policy
Economics

English
Ethics in the Life Sciences
European Culture and Civilization
Family and Child Studies
French Studies
Geography
German
Hispanic Studies
History
International Development
Italian
Marketing Management
Mathematics
Museum Studies
Music

Philosophy
Political Science
Psychology
Sociology
Statistics
Studio Art
Theatre Studies

Visual Arts of the Americas

The schedule of studies for each minor is given on the following pages under its subject heading.

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 6.00 credits is required, including:

- ANTH*1150 [0.50] Introduction to Anthropology
- ANTH*2160 [0.50] Social Anthropology
- ANTH*2230 [0.50] Regional Ethnography
- ANTH*3690 [0.50] History of Anthropological Thought
- ANTH*3770 [0.50] Kinship and Social Organization
- SOAN*2120 [0.50] Introductory Methods

One of:

- MUSC*2270 [0.50] World Music
- PHIL*2100 [0.50] Critical Thinking

1.50 additional credits in ANTH

1.00 additional credits in SOAN

Note: 1.50 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:

- ANTH*1150 [0.50] Introduction to Anthropology
- ANTH*2160 [0.50] Social Anthropology
- ANTH*2230 [0.50] Regional Ethnography
- ANTH*3690 [0.50] History of Anthropological Thought
- ANTH*3770 [0.50] Kinship and Social Organization
- ANTH*4700 [0.50] Issues in Contemporary Anthropological Theory
- SOAN*2120 [0.50] Introductory Methods
- SOAN*3070 [0.50] Qualitative and Observational Methods

Two of:

- LING*1000 [0.50] Introduction to Linguistics
- MUSC*2270 [0.50] World Music
- PHIL*2100 [0.50] Critical Thinking

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 6.00 credits is required, including:

- ANTH*1150 [0.50] Introduction to Anthropology
- ANTH*2160 [0.50] Social Anthropology
- ANTH*2230 [0.50] Regional Ethnography
- ANTH*3690 [0.50] History of Anthropological Thought
- ANTH*3770 [0.50] Kinship and Social Organization
- SOAN*2120 [0.50] Introductory Methods

One of:

- MUSC*2270 [0.50] World Music
- PHIL*2100 [0.50] Critical Thinking

1.50 additional credits in ANTH

1.00 additional credits in SOAN

Note: 1.50 of these additional credits must be completed at the 3000 level or above.
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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1500</td>
<td>0.50</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>0.50</td>
<td>Calculus I</td>
</tr>
<tr>
<td>1.50 electives from Arts and Social Sciences **</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Semester 2 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*2500</td>
<td>0.50</td>
<td>Intermediate Programming</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>0.00</td>
<td>Introduction to Co-operative Education</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>0.50</td>
<td>Calculus II</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
<tr>
<td>1.00 electives from Arts and Social Sciences **</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Summer Semester

No study semester or work term.

Semester 3 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2000</td>
<td>0.50</td>
<td>Set Theory</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>STAT*2050</td>
<td>0.50</td>
<td>Statistics II</td>
</tr>
<tr>
<td>0.50 electives from Arts and Social Sciences **</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Semester 4 - Summer

<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>

Semester 5 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2170</td>
<td>0.50</td>
<td>Differential Equations I</td>
</tr>
<tr>
<td>2.00 electives</td>
<td></td>
<td></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>

Semester 6 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2210</td>
<td>0.50</td>
<td>Advanced Calculus II</td>
</tr>
<tr>
<td>MATH*2130</td>
<td>0.50</td>
<td>Numerical Methods</td>
</tr>
<tr>
<td>0.50 credits in Mathematics or Statistics at the 3000 level or above.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.00 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*3000</td>
<td>0.00</td>
<td>Co-op Work Term III</td>
</tr>
</tbody>
</table>

Semester 7 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT*3100</td>
<td>0.50</td>
<td>Introductory Mathematical Statistics I</td>
</tr>
<tr>
<td>STAT*3240</td>
<td>0.50</td>
<td>Applied Regression Analysis</td>
</tr>
<tr>
<td>At least 1.00 credits from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH*3100</td>
<td>0.50</td>
<td>Differential Equations II</td>
</tr>
<tr>
<td>MATH*3200</td>
<td>0.50</td>
<td>Real Analysis</td>
</tr>
<tr>
<td>MATH*3240</td>
<td>0.50</td>
<td>Operations Research</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Semester 8 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT*3110</td>
<td>0.50</td>
<td>Introductory Mathematical Statistics II</td>
</tr>
<tr>
<td>1.50 credits in Mathematics or Statistics at the 3000 level or above.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*4000</td>
<td>0.00</td>
<td>Co-op Work Term IV</td>
</tr>
</tbody>
</table>

Semester 9 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00 credits in Mathematics or Statistics at the 4000 level.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** Students are reminded that as soon as possible after entrance to the program, they must meet the BA distribution requirements of 1.50 credits from 2 different schools or departments in the College of Arts and 1.50 credits 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.

Art History (ARTH)

School of Fine Art and Music, College of Arts

The School provides for concentrated study in Art History or Studio Arts, or for a more balanced study combining the two disciplines. Both Studio Art and Art History degree programs require some work in both the programs. Many Art History courses are also open to non-specialized students.

The Art History program covers historical perspectives on the visual arts, study of the methodologies of art history and critical theory, and consideration of contemporary issues in the practice and display of art. Students pursuing a Major or Minor in Art History are required to take a minimum number of courses in each of three areas of focus in the program: Western Art and Cross-Cultural Perspectives; Visual Arts of the Americas; and Art Theory, Critical Methodology and Museology. The groups of courses that comprise these areas of focus are listed below.

Students majoring in other programs who are also interested in the study of Art History are encouraged to consider the Minors offered in Visual Arts of the Americas, Museum Studies, and Art Theory and Criticism. Specific requirements for the Art History Honours Major and Minor are listed below.

Student Counselling

The students who elect to take a substantial number of courses in Art History with 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.
- b. 3.00 credits from the Western Art and Cross-Cultural Perspectives including:
  1. ARTH*2150 or ARTH*3150
  2. ARTH*2540
  3. ARTH*2550 or ARTH*2950
  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
- c. 1.50 credits from the Arts of the Americas area of focus: ARTH*2050, ARTH*2060, ARTH*2070, ARTH*2490, ARTH*3010, ARTH*3050, ARTH*3060
- d. 1.00 credits from the Art Theory, Critical Methodology and Museology area of focus: ARTH*2120, ARTH*2480, ARTH*3210, ARTH*3220, ARTH*3780
- e. At least 2.00 credits from 4000-level seminar courses: ARTH*4310, ARTH*4320, ARTH*4330, ARTH*4340, ARTH*4350, ARTH*4620

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 Art 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*4130 [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.

Art Theory and Criticism (ATC)

School of Fine Art and Music
The Minor program in Art Theory and Criticism offers students the opportunity to engage critically with the most significant interpretative methods art historians and critics use to analyze artwork. Courses will provide an overview of important debates in the field and of their contexts, as well as informed discussions of the issues that are raised when textuality and visuality come together.

This program of study is designed as a complement to a significant number of Major specializations, and is suitable for any student wishing to broaden their knowledge beyond their Major area of study. Students wishing to combine this Minor with a Major in Art History are advised that the selection of their required courses should begin early in their degree, and that they should obtain counselling from faculty to ensure they can achieve the correct distribution.

Minor (Honours Program)
A minimum of 5.00 credits is required, including:

a. ARTH*1220 [0.50] The Visual Arts Today
ARTH*1510 [0.50] Art Historical Studies I
ARTH*1520 [0.50] Art Historical Studies II

b. 3.50 additional credits in Art History as follows:
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*3520 [0.50] Idea: Art Since 1950
ARTH*3780 [0.50] Gender and Art
ARTH*4350 [1.00] Topics in Art & Visual Culture V

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
MC*1000 [0.50] Introductory Marketing
MC*3040 [0.50] Business and Consumer Law

One of:
BUS*2090 [0.50] Individuals and Groups in Organizations
FA*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 5.25 credits is required, including:

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
1.00 additional credits from CIS or STAT courses at the 2000 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:
### Introductory Philosophy: Social and Political Issues
PHIL*1010 [0.50] Introductory Philosophy: Social and Political Issues
PHIL*1400 [0.50] Issues in Canadian Politics
PHIL*2250 [0.50] Public Administration and Governance
PHIL*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:
- HIST*3130 [0.50] Popular Culture and Punishment, 1700-1900
- PHIL*3040 [0.50] Philosophy of Law
- PHIL*3230 [0.50] Issues in Social and Political Philosophy
- PSYC*3020 [0.50] Psychology of Law

#### Minor (Honours Program)
A minimum of 6.00 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

#### Two 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

#### Two 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*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

#### One of:
- HIST*3130 [0.50] Popular Culture and Punishment, 1700-1900
- PHIL*3040 [0.50] Philosophy of Law
- PHIL*3230 [0.50] Issues in Social and Political Philosophy
- PSYC*3020 [0.50] Psychology of Law

### 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

### Minor (Honours Program)
A minimum of 5.50 credits in Economics is required, including:
- a. the Economics core
- b. 2.50 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.

### 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 to 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 be permitted to take these work terms if they are eligible to continue in the Honours Economics program. 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 Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
<td>Introductory Microeconomics</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math*1000</td>
<td>0.50</td>
<td>Introductory Calculus</td>
</tr>
<tr>
<td>MATH*1030</td>
<td>0.50</td>
<td>Business Mathematics</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>0.50</td>
<td>Calculus I</td>
</tr>
<tr>
<td>1.50 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 2 (Winter)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1100</td>
<td>0.50</td>
<td>Introductory Macroeconomics</td>
</tr>
<tr>
<td>One computer science course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.50 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Summer Semester

Optional -- at the discretion of the student.

#### Semester 3 (Fall)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course 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>
<tr>
<td>0.50 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 4 (Winter)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3470</td>
<td>0.50</td>
<td>Introduction to Econometrics</td>
</tr>
<tr>
<td>One economic history course*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.50 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Summer Semester

Optional -- at the discretion of the student.

#### Semester 5 (Winter)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*3000</td>
<td>0.00</td>
<td>Co-op Work Term I</td>
</tr>
</tbody>
</table>
| Fall Semester
| COOP*2000   | 0.00    | Co-op Work Term II |
| Semester 6 (Fall)
| ECON*3710   | 0.50    | Advanced Microeconomics |
| One 4000 level Economics course (ECON*4640 is recommended) |         |              |
| 1.50 electives |

#### Winter Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*4000</td>
<td>0.00</td>
<td>Co-op Work Term IV</td>
</tr>
</tbody>
</table>
| 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*4810</td>
<td>0.50</td>
<td>Advanced Topics in Macroeconomics</td>
</tr>
<tr>
<td>0.50 credits in Economics at the 4000 level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.50 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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. Certain courses in Theatre Studies (THST) and in Literature in Translation (CLAS, GERM, HUMN, SPAN) may be counted 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:

- ENGL*1080, ENGL*2080
- ENGL*2120, ENGL*3940, ENGL*3960

#### English electives - 3.50 credits to include:

1. 3.00 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.uoguelph.ca/sets](http://www.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:

- ENGL*1080, ENGL*2080
- ENGL*2120, ENGL*2130, ENGL*3940, ENGL*3960

#### English electives - 5.00 credits to include:

- 2.50 credits from 3000 level lecture courses
- 2.00 credits from 4000 level courses
- 1.00 credits from any other lecture or seminar courses
- 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

A maximum of 2.00 credits at the 4000 level may be counted towards a major in English.

**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.

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
- GEOG*1220 [0.50] Human Impact on the Environment
- GEOG*1350 [0.50] Earth: Hazards and Global Change
- GEOG*2110 [0.50] Climate and the Biophysical Environment
- GEOG*2210 [0.50] Environment and Resources
- GEOG*3020 [0.50] Global Environmental Change
- GEOG*3210 [0.50] Management of the Biophysical Environment
- GEOG*4210 [0.50] Environmental Governance
- GEOG*4220 [0.50] Local Environmental Management
- GEOG*4230 [0.50] Environmental Impact Assessment
- POLS*1400 [0.50] Issues in Canadian Politics
- POLS*2250 [0.50] Public Administration and Governance
- POLS*2300 [0.50] Canadian Government and Politics
- POLS*3210 [0.50] The Constitution and Canadian Federalism
- POLS*3370 [0.50] Environmental Politics and Governance

One of:

- GEOG*2030 [0.50] Political Ecology & Geography
- GEOG*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*2250 [0.50] Environment and History
- PHIL*2070 [0.50] Philosophy of the Environment
- SOC*3380 [0.50] Society and Nature

One of:

- ECON*2740 [0.50] Economic Statistics
- GEOG*2460 [0.50] Analysis in Geography
- STAT*2040 [0.50] Statistics I

One of:

- FARE*3170 [0.50] Cost-Benefit Analysis
- POLS*3250 [0.50] Public Policy: Challenges and Prospects
- 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:

- FARE*4290 [0.50] Land Economics
- FARE*4310 [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.

**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:

- PHIL*2120, PHIL*2180, PHIL*3450

b. At least 2 of the following courses (minimum 1.00 credits): PHIL*2070, PHIL*2030, PHIL*3170, PHIL*3240, PHIL*4040
c. 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
d. At least 2 of the following courses in Metaphysics/Epistemology (minimum 1.00 credits): PHIL*2160, PHIL*2170, PHIL*2250, PHIL*2370, PHIL*3130, PHIL*3180, PHIL*3190, PHIL*4360, PHIL*4370, PSYC*3280
e. 0.50 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. It 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 5.50 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 Mid 18th to the Mid 19th Century
2. EURO*2200 [0.50] European Culture from the Mid 19th Century to the 1920's
3. EURO*2300 [0.50] European Culture since 1920

2. 2.00 credits in one language, at second or third year level, chosen from the following list:

- 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
- GERM*2400 [0.50] Contemporary Germany
- GERM*2490 [0.50] Intermediate German I
- GERM*2500 [0.50] Intermediate German II
- GERM*2560 [0.50] Themes in German Literature/Culture
- GERM*3500 [0.50] Advanced German I
- 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
- HIS*3500 [0.50] Advanced Spanish I
- HIS*3530 [0.50] Business Spanish

3. 2.00 credits; 0.50 credits from each of 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
- FREN*3010 [0.50] Twentieth-Century French Novel (taught in French)
- FREN*3080 [0.50] Pre-Revolution French Literature
- HIST*2850 [0.50] Ancient Greece and Rome
- HUMN*2100 [0.50] Renaissance Lovers and Fools
- HUMN*3020 [0.50] Myth and Fairy Tales in Germany
- HUMN*3470 [0.50] Holocaust & WWII in German Lit. & Film

**Group B**

- HIST*4101 [0.50] The Early Modern World
- HIST*2200 [0.50] The Medieval World
### Core Requirements

1. **EURO*1050** [0.50] European Culture from the Mid 18th to the Mid 19th Century
2. **EURO*1200** [0.50] The Emergence of a United Europe
3. **EURO*2200** [0.50] European Culture from the Mid 19th Century to the 1920s
4. **EURO*2300** [0.50] European Culture since 1920
5. **EURO*4740** [0.50] Research Project in European Studies

### Areas of Emphasis

#### European Business

- **ACCT*2220** [0.50] Financial Accounting
- **ACCT*2230** [0.50] Management Accounting
- **BUS*3320** [0.50] Financial Management
- **ECON*1050** [0.50] Introductory Microeconomics
- **ECON*1100** [0.50] Introductory Macroeconomics
- **MGMT*4260** [0.50] International Business
- **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
- **HISP*4200** [0.50] Individuals and Groups in Organizations
- **ITAL*1000** [0.50] Introduction to Classical Culture
- **ITAL*2090** [1.00] Renaissance Lovers and Fools
- **ITAL*3150** [0.50] Medieval Italian Literature
- **ITAL*3200** [0.50] Novels of Resistance
- **ITAL*3400** [0.50] Contemporary Italy
- **ITAL*3800** [0.50] Italy in Film
- **ITAL*4000** [0.50] Italian Cinema
- **ITAL*4100** [0.50] Exploring the Italian Community
- **ITAL*4990** [0.50] Special Topics in Italian Language and Culture

#### European Culture and Civilization

- **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.
- The substitution(s) must also be approved by the Coordinator for the European Studies 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
Family and Child Studies (FCS)

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.

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, as electives, or both. They are subject to approval by the departmental advisor. Courses taken in Europe will not count towards the specialization or resource economics and other fields of applied economics.

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 as 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.

X. Degree Programs, Bachelor of Arts (B.A.)

Group A

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS*2000</td>
<td>[0.50]</td>
<td>Classical Mythology</td>
</tr>
<tr>
<td>CLAS*2350</td>
<td>[0.50]</td>
<td>The Classical Tradition</td>
</tr>
<tr>
<td>EURO*3150</td>
<td>[0.50]</td>
<td>Topi cs in European Film</td>
</tr>
<tr>
<td>FREN*2500</td>
<td>[0.50]</td>
<td>French Translation I (taught in French)</td>
</tr>
<tr>
<td>FREN*3000</td>
<td>[0.50]</td>
<td>Romanticism &amp; Realism in France</td>
</tr>
<tr>
<td>FREN*3010</td>
<td>[0.50]</td>
<td>Twentieth-Century French Novel (taught in French)</td>
</tr>
<tr>
<td>FREN*3070</td>
<td>[0.50]</td>
<td>Enlightenment and Crisis</td>
</tr>
<tr>
<td>HIST*2850</td>
<td>[0.50]</td>
<td>Ancient Greece and Rome</td>
</tr>
<tr>
<td>HUMN*2100</td>
<td>[0.50]</td>
<td>Renaissance Lovers and Fools</td>
</tr>
<tr>
<td>HUMN*3020</td>
<td>[0.50]</td>
<td>Myth and Fairy Tales in Germany</td>
</tr>
<tr>
<td>HUMN*3470</td>
<td>[0.50]</td>
<td>Holocaust &amp; WWII in German Lit. &amp; Film</td>
</tr>
</tbody>
</table>

Group B

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST*1010</td>
<td>[0.50]</td>
<td>The Early Modern World</td>
</tr>
<tr>
<td>HIST*2200</td>
<td>[0.50]</td>
<td>The Medieval World</td>
</tr>
<tr>
<td>HIST*2890</td>
<td>[0.50]</td>
<td>Modern France Since 1750</td>
</tr>
<tr>
<td>HIST*3090</td>
<td>[0.50]</td>
<td>Nationalism and Internationalism in Europe 1914-1957</td>
</tr>
<tr>
<td>HIST*3350</td>
<td>[0.50]</td>
<td>Modern Germany</td>
</tr>
<tr>
<td>HIST*3540</td>
<td>[0.50]</td>
<td>World War II</td>
</tr>
<tr>
<td>HIST*3570</td>
<td>[0.50]</td>
<td>Women in Modern Europe</td>
</tr>
<tr>
<td>HIST*3750</td>
<td>[0.50]</td>
<td>The Reformation</td>
</tr>
<tr>
<td>HIST*3820</td>
<td>[0.50]</td>
<td>Early Modern France</td>
</tr>
<tr>
<td>HIST*4090</td>
<td>[1.00]</td>
<td>Modern European History</td>
</tr>
<tr>
<td>HIST*4470</td>
<td>[0.50]</td>
<td>Special History Project Seminar I</td>
</tr>
<tr>
<td>HIST*4580</td>
<td>[1.00]</td>
<td>The French Revolution</td>
</tr>
</tbody>
</table>

Group C

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH*1510</td>
<td>[0.50]</td>
<td>Art Historical Studies I</td>
</tr>
<tr>
<td>ARTH*1520</td>
<td>[0.50]</td>
<td>Art Historical Studies II</td>
</tr>
<tr>
<td>ARTH*2550</td>
<td>[0.50]</td>
<td>The Italian Renaissance</td>
</tr>
<tr>
<td>ARTH*2580</td>
<td>[0.50]</td>
<td>Late Modern Art: 1900-1950</td>
</tr>
<tr>
<td>ARTH*2600</td>
<td>[0.50]</td>
<td>Early Modern Art to 1900</td>
</tr>
<tr>
<td>ARTH*3100</td>
<td>[0.50]</td>
<td>Perspectives: Structure &amp; Space in Western Art</td>
</tr>
<tr>
<td>ARTH*3320</td>
<td>[0.50]</td>
<td>Lives: Aspects of Western Art</td>
</tr>
<tr>
<td>ARTH*3330</td>
<td>[0.50]</td>
<td>Display: Visual Culture in Western Europe</td>
</tr>
<tr>
<td>ARTH*3340</td>
<td>[0.50]</td>
<td>The Art Object &amp; Material Culture</td>
</tr>
<tr>
<td>MUSC*1060</td>
<td>[0.50]</td>
<td>“Classical” Music: Context and Codes</td>
</tr>
<tr>
<td>MUSC*2010</td>
<td>[0.50]</td>
<td>The Musical Avant-Garde</td>
</tr>
<tr>
<td>MUSC*2280</td>
<td>[0.50]</td>
<td>Masterworks of Music</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL*2140</td>
<td>[0.50]</td>
<td>History of Greek and Roman Philosophy</td>
</tr>
<tr>
<td>PHIL*2160</td>
<td>[0.50]</td>
<td>Modern European Philosophy to Hume</td>
</tr>
<tr>
<td>PHIL*3060</td>
<td>[0.50]</td>
<td>Medieval Philosophy</td>
</tr>
<tr>
<td>PHIL*3080</td>
<td>[0.50]</td>
<td>History of Modern European Philosophy from Kant</td>
</tr>
<tr>
<td>PHIL*3200</td>
<td>[0.50]</td>
<td>Contemporary European Philosophy</td>
</tr>
<tr>
<td>POLS*2000</td>
<td>[0.50]</td>
<td>Political Theory</td>
</tr>
<tr>
<td>POLS*2100</td>
<td>[0.50]</td>
<td>Comparative Politics</td>
</tr>
<tr>
<td>POLS*2200</td>
<td>[0.50]</td>
<td>International Relations</td>
</tr>
<tr>
<td>POLS*2540</td>
<td>[0.50]</td>
<td>Russia and Eastern Europe</td>
</tr>
</tbody>
</table>

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, as 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.

Food and Agricultural 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
- AGR*1250 [0.50] Agrifood System Trends & Issues
- AGR*2400 [0.50] Economics of the Canadian Food System
- FARE*1300 [0.50] Poverty, Food & Hunger
- 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*4105 [0.50] Introductory Microeconomics
- ECON*4120 [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

One of:

- FARE*3170 [0.50] Cost-Benefit Analysis
- FARE*4360 [0.50] Marketing Research
- FARE*4500 [0.50] Decision Science

One of:

- MATH*1000 [0.50] Introductory Calculus
- MATH*1080 [0.50] Elements of Calculus I
- MATH*1200 [0.50] Calculus I

1.50 additional credits, at least of which 0.50 credits must be at the 4000 level, chosen from the following list of thematic streams with the Food, Agricultural and Resource Economics specialization:

Agri-business Management:

- FARE*2050 [0.50] Markets for Molecules
- FARE*3400 [0.50] Agribusiness Financial Management
- FARE*4220 [0.50] Advanced Agribusiness Management
- FARE*4240 [0.50] Futures and Options Markets
- FARE*4370 [0.50] Food & Agri Marketing Management

Food and Agricultural Economics:

- FARE*2050 [0.50] Markets for Molecules
- FARE*4220 [0.50] Advanced Agribusiness Management
- FARE*4240 [0.50] Futures and Options Markets

International Agricultural Development Economics:

- FARE*3250 [0.50] Food, Nutrition & International Development
- FARE*4210 [0.50] World Agriculture and Economic Development

Resource Economics:

- FARE*4290 [0.50] Land Economics
- FARE*4310 [0.50] Resource Economics

Notes: A student may obtain permission to substitute certain other courses for the ones listed if the substitute courses fit with the students program. Approval from a departmental advisor is required.
Unless taken to satisfy the requirements of another program, no student may receive credit in this program for more than one of the following statistics prerequisites ECON*2740, STAT*2040, STAT*2060, or STAT*2080.

French Studies (FREN)

School of Languages and Literatures, College of Arts

All language courses carry 0.50 credits. Please note that students with Ontario Grade 12 credit or its equivalent in French are not normally admitted into FREN*1090, FREN*1100, FREN*1120 or FREN*1150. Francophone students usually start the program with second-year courses conditional upon approval by the Faculty Advisor. Students majoring in French are advised to take elective courses in another Romance language and in Latin. It is also recommended that students include CLAS*1000 and LING*1000 among the 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 French courses are expected to have the appropriate academic background.

Area of Concentration (General Program)

A minimum of 5.00 French credits taught in French is required, including FREN*1200, FREN*2020, FREN*2030, FREN*2060, FREN*2520, FREN*3520.

Major (Honours Program)

A minimum of 8.00 French credits taught in French is required, including:

- FREN*1200, FREN*2020, FREN*2030, FREN*2060, FREN*2520, FREN*3230
- at least 0.50 credits from FREN*2500, FREN*2540
- at least 2.00 additional credits from FREN*3000, FREN*3100, FREN*3080, FREN*3120, FREN*3200
- at least 1.00 credits from FREN*3500, FREN*3520, FREN*3530
- at least 1.50 credits at the 4000 level

Minor (Honours Program)

A minimum of 5.00 French credits taught in French is required, including:

- FREN*1200, FREN*2020, FREN*2030, FREN*2060, FREN*2520, FREN*3520
- 1.00 credits in French literature from FREN*3000, FREN*3010, FREN*3080, FREN*3120, FREN*3200, FREN*4300, FREN*4220, FREN*4290, FREN*4520
- 1.00 additional credits from French

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 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 normally be admitted into FREN*1200 and FREN*2030. It is recommended they start their program with FREN*2020, FREN*2060, FREN*2520, 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 prerequisites 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 additional courses that they should take.

The department also offers a B.S.C. honours Earth Surface Science program (jointly with Land Resources Science), a B.S.C.(ENV) honours Environmental Geography Major program, and a B.S.C. 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.S.C. Minor. All Geography students are encouraged to consult with a departmental advisor regarding course selection.

The following courses may be counted as Geography credits: ENVS*4220, GEOL*2150, MET*2030, SOIL*2010.

Area of Concentration (General Program)

A minimum of 5.00 credits in Geography is required, including:

- GEOG*1200 [0.50] Society and Space
- GEOG*1220 [0.50] Human Impact on the Environment
- GEOG*1300 [0.50] Introduction to the Biophysical Environment
- Two of:
  - GEOG*2000 [0.50] Geomorphology
  - GEOG*2110 [0.50] Climate and the Biophysical Environment
  - GEOG*2210 [0.50] Environment and Resources
  - GEOG*2230 [0.50] Economic Geography
  - GEOG*2260 [0.50] Applied Human Geography
- One of:
  - GEOG*2460 [0.50] Analysis in Geography
  - GEOG*2480 [0.50] Mapping and GIS
- 2.00 credits at the 3000 level or above

Major (Honours Program)

A minimum of 9.00 credits in Geography is required, including:

- GEOG*1200 [0.50] Society and Space
- GEOG*1220 [0.50] Human Impact on the Environment
- GEOG*1300 [0.50] Introduction to the Biophysical Environment
- GEOG*2000 [0.50] Geomorphology
- GEOG*2110 [0.50] Climate and the Biophysical Environment
- GEOG*2210 [0.50] Environment and Resources
- GEOG*2230 [0.50] Economic Geography
- GEOG*2260 [0.50] Applied Human Geography
- GEOG*2460 [0.50] Analysis in Geography
- GEOG*2480 [0.50] Mapping and GIS
- GEOG*3480 [0.50] GIS and Spatial Analysis
- GEOG*4880 [0.50] Contemporary Geographic Thought
- 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:

- GEOG*1200 [0.50] Society and Space
- GEOG*1220 [0.50] Human Impact on the Environment
- GEOG*1300 [0.50] Introduction to the Biophysical Environment

Two of:
- GEOG*2000 [0.50] Geomorphology
- GEOG*2110 [0.50] Climate and the Biophysical Environment
- GEOG*2210 [0.50] Environment and Resources
- GEOG*2230 [0.50] Economic Geography
- GEOG*2260 [0.50] Applied Human Geography
- GEOG*2460 [0.50] Analysis in Geography
- GEOG*2480 [0.50] Mapping and GIS
- GEOG*3480 [0.50] GIS and Spatial Analysis
- GEOG*4880 [0.50] Contemporary Geographic Thought

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 Literature 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 Literature.

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 Literature for an up-to-date sequence of course offerings.

Hispanic Studies (HISP)

School of Languages and Literature, 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 components of 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*3470. 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:

- 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 designated 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 passing standing in at least 5.00 credits in university courses.

Students wishing to take a 4000 level course must have passing 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 at and 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 up to 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 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.

http://www.uoguelph.ca/
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, behavioural 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 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*1100 [0.50] Principles of Behaviour
- PSYC*1200 [0.50] Dynamics of Behaviour
- 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
- 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] Political Ecology & Geography
- 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] Political Ecology & Geography
- 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 an approved semester abroad or exchange program

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:
- ECON*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
- FARE*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

Areas of Emphasis

Environment and Development
- GEOG*1220 [0.50] Human Impact on the Environment
- GEOG*2300 [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*2120 [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*3390 [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
- GEOG*3620 [0.50] Global Environmental Change

Two of:
- GEOG*3480 [0.50] GIS and Spatial Analysis
- GEOG*4410 [1.00] Environmental Systems Analysis
- GEOG*4210 [0.50] Environmental Governance
- GEOG*4220 [0.50] Local Environmental Management
Gender and Development

ANTH*2160 [0.50] Social Anthropology
SOAN*2120 [0.50] Introductory Methods
SOAN*3240 [0.50] Gender & Global Inequality I
SOAN*4230 [0.50] Gender & Global Inequality II

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

0.50 additional credits at the 4000 level in ANTH, SOAN, SOC or WMST

Historical Perspectives in Development

HIST*1010 [0.50] The Early Modern World
HIST*2450 [0.50] The Practising Historian

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 HIST.

0.50 additional credits with a regional focus at the 2000 level or above in ANTH, GEOG, HIST, IDEV, ISS, POLS, SOAN or SOC.

Latin American Studies

HISP*2000 [0.50] Intermediate Spanish I
HISP*2010 [0.50] Intermediate Spanish II
HISP*3500 [0.50] Advanced Spanish I

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
HISP*2920 [0.50] Republican Latin America
HIST*3150 [0.50] History and Culture of Mexico
HIST*3420 [0.50] Colonial Latin America
HUM*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

POLS*3180 [0.50] Research Methods I: Political Inquiry and Methods

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.
A minimum of 5.00 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
- **POL*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] Political Ecology & Geography
- **GEOG*3050** [0.50] Development and the City
- **POL*3670** [0.50] Comparative Public Policy and Administration
- **POL*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:

- **ITAL*2090**, **ITAL*3060**
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] Applied Econometrics II
- 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*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

Note: *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 any 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
Advanced Calculus I
Advanced Calculus II
Differential Equations II
Abstract Algebra
Linear Algebra II
Real Analysis
Complex Analysis
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*

2.00 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 5 or 7.

Semester 6

MATH 3160 [0.50] Linear Algebra II
(If not taken earlier; otherwise 0.50 electives)
MATH 3260 [0.50] Complex Analysis
1.50 electives***

Semester 7

2.50 electives***

Semester 8

2.50 electives***

*These courses should be chosen from the list of Semester 1 requirements as listed in the Program Regulations for the BA.

**Students are reminded that they must meet the BA distribution requirements of 1.50 credits in the humanities and 1.50 credits in the social sciences.

***These electives must include at least 0.50 credits in MATH or STAT at 3000 level or above, and at least 1.50 credits at the 4000 level in MATH (which may include STAT 4340).

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, (MATH* 2150 or MATH* 2160), MATH* 2200
0.50 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

Music (MUSC)

School of Fine Art and Music, College of Arts

The School offers courses in music history, theory, ethnomusicology, and performance. Many courses are open to all students, while others require knowledge of the rudiments of musical notation or other prerequisites. Students are urged to plan their program in consultation with a Music advisor. Music programs allow considerable flexibility for students to elect one or more areas of interest, such as individual study on an instrument, performing in vocal or instrumental ensembles, specialized historical or theoretical study, directed readings, or an independent project. Physics of Music (PHYS* 1810) is strongly recommended for all Music students and will count as one of the courses for the B.A. math/science requirement.

Courses in Music are offered in several of the semesters abroad, especially London. Credit for programs of study successfully completed may be applied towards the University of Guelph degree requirements.

Applied Music

MUSC* 1500 is available only by audition. MUSC* 1500 is restricted to students in Semesters 1-4 who are enrolled in a Music program; general program, area of concentration; honours program, major or minor. Students enrolled in a Music program,honours major, may audit for MUSC* 1500 beyond the fourth semester.

Applied Music 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 (re-audition) before registering to continue in Applied Music. Students must achieve a minimum grade 70% in Applied Music courses in order to proceed to the next level.

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 enroll 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*2180, 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*4401/2 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. 1 of PHIL*2140, PHIL*2160, PHIL*2170, PHIL*3060, PHIL*3080, PHIL*3130, PHIL*3200, PHIL*3280
b. 1 of PHIL*2110, PHIL*2130, PHIL*2180, PHIL*2250, PHIL*3180, PHIL*3190, PHIL*3240, PHIL*3250, PHIL*3420, PHIL*3450, PHIL*3910, PHIL*3920, PHIL*3930, PHIL*4360, PHIL*4375, PSYC*3280
1 of 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).

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*4360, PHIL*4375, PSYC*3280
c. 1 of PHIL*2120, PHIL*3050, PHIL*3230, PHIL*3410, 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 Science (POLS)

Department of Political Science, College of Social and Applied Human Sciences
The Department of Political Science offers courses in the following areas: Political Thought; Canadian Politics; Public Policy, Governance, and Law; Comparative Politics; and International Relations and Global Studies. The Department of Political Science also participates in several interdisciplinary programs, including Criminal Justice and Public Policy, International Development Studies, Environmental Governance, and European Studies.

Students taking courses in Political Science may enrol initially in POLS*1150, POLS*1400, POLS*1500, the latter 2 courses providing overview and introductory treatments of particular interest to students who wish to take higher level courses in the department but who do not intend to specialize in the discipline. For students intending to pursue a general or honours specialization in Political Science, however, POLS*1150 is required.

Courses at the 2000 level provide students with essential grounding in specific areas of the discipline and are normally prerequisite for enrolment in 3000 and 4000 level courses. Students in the honours program major are required to take POLS*3180 and POLS*3650. Students in the honours program minor are required to take POLS*3180.

In addition to the requirements set out in the B.A. Program Regulations, the Department of Political Science requires that students pursuing general and honours programs successfully complete a core requirement of 2.50 credits and meet specific distribution requirements as follows:

Core Requirements
a. POLS*1150, POLS*2000, POLS*2300
b. POLS*2080 or POLS*2100
c. POLS*2200 or POLS*2250

Area of Concentration (General Program)
A minimum of 5.00 credits in Political Science is required, including:

a. the Political Science core
b. 2.50 additional credits, at least 1.50 of which must be at the 3000 level or above

Major (Honours Program)
A minimum of 9.00 credits in Political Science is required, including:

a. the Political Science core
b. POLS*3180 and POLS*3650
c. at least 0.50 credits at the 3000 level in three of the five fields in the department
d. 1.50 credits at the 4000 level, two of which may include the POLS*4970/POLS*4980 Honours Thesis ***
e. an additional 2.50 credits from courses in Political Science

** Students interested in pursuing graduate or professional studies related to Political Science are encouraged to consider taking the POLS*4970/POLS*4980 Honours Thesis sequence. Interested students must obtain instructor consent in order to register for this option.

Minor (Honours Program)
A minimum of 5.00 credits in Political Science is required, including:

a. the Political Science core
b. POLS*3180
c. 0.50 credits at the 4000 level
d. 1.50 additional credits from courses in Political Science

Choices for fulfillment of prerequisites for 4000 level courses (see course descriptions for corresponding requirements).
Political Thought
POLSc*3230 [0.50] Modern Political Thought
POLSc*3710 [0.50] Politics and Sexuality

Canadian Politics
POLSc*3050 [0.50] Canadian Political Parties, Elections and Pressure Groups
POLSc*3210 [0.50] The Constitution and Canadian Federalism
POLSc*3270 [0.50] Local Government in Ontario
POLSc*3470 [0.50] Business-Government Relations in Canada

Public Policy, Governance and Law
POLSc*3130 [0.50] Law, Politics and Judicial Process
POLSc*3210 [0.50] The Constitution and Canadian Federalism
POLSc*3250 [0.50] Public Policy: Challenges and Prospects
POLSc*3300 [0.50] Governing Criminal Justice
POLSc*3370 [0.50] Environmental Politics and Governance
POLSc*3440 [0.50] Corruption, Scandal and Political Ethics
POLSc*3470 [0.50] Business-Government Relations in Canada
POLSc*3670 [0.50] Comparative Public Policy and Administration
POLSc*3940 [0.50] Accountability and Canadian Government

Comparative Politics
POLSc*3000 [0.50] Politics of Africa
POLSc*3060 [0.50] Politics of the Middle East and North Africa
POLSc*3080 [0.50] Politics of Latin America
POLSc*3160 [0.50] Women and Politics in the Third World
POLSc*3320 [0.50] Politics of Aid & Development
POLSc*3410 [0.50] U.S. Politics and Government
POLSc*3440 [0.50] Corruption, Scandal and Political Ethics
POLSc*3450 [0.50] European Governments and Politics
POLSc*3670 [0.50] Comparative Public Policy and Administration
POLSc*3890 [0.50] Government and Politics of India
POLSc*3920 [0.50] Modern China

International Relations and Global Studies
POLSc*3070 [0.50] Comparative Politics of Asia Pacific
POLSc*3160 [0.50] Women and Politics in the Third World
POLSc*3320 [0.50] Politics of Aid & Development
POLSc*3330 [0.50] Politics and Trade Liberalization in the Americas
POLSc*3490 [0.50] Conflict and Conflict Resolution
POLSc*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 an undergraduate 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 a 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 (PYSC) major or minor, B.A. Information Systems and Human Behaviour (ISHB) major, B.Sc. Psychology: Brain and Cognition (BPC), 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.

PSYC*2310 [0.50] Introduction to Social Psychology
PSYC*2330 [0.50] Principles of Learning
PSYC*2390 [0.50] Principles of Sensation and Perception
PSYC*2410 [0.50] Behavioural Neuroscience I
PSYC*2450 [0.50] Introduction to Developmental Psychology
PSYC*2650 [0.50] Cognitive Psychology
PSYC*2740 [0.50] Personality

Major (Honours Program)
A minimum of 9.00 credits in Psychology is required, including (see notes below):

PSYC*1100 [0.50] Principles of Behaviour
PSYC*1200 [0.50] Dynamics of Behaviour
6 of the 2000 level Psychology core courses listed above
PSYC*2010 [0.50] Quantification in Psychology
PSYC*2040 [0.50] Research Statistics
PSYC*2360 [0.50] Introductory Research Methods
PSYC*3250 [0.50] Psychological Measurement

1.50 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*2010 should normally be completed by the end of semester 3
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 at least 0.50 elective 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:

a. PSYC*1100 and PSYC*1200
b. 6 of the 2000 level Psychology core courses
c. PSYC*2010 and PSYC*2040
d. PSYC*2360 and PSYC*3370 and PSYC*3380
e. an additional 0.50 credits in Psychology at the 3000 level or above
f. PSYC*3250
g. PSYC*4370 or PSYC*4900
h. 0.50 electives at the 4000 level
i. 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:

PSYC*1100 [0.50] Principles of Behaviour
PSYC*1200 [0.50] Dynamics of Behaviour
PSYC*2010 [0.50] Quantification in Psychology
PSYC*2360 [0.50] Introductory Research Methods
2.00 credits in the 2000 level Psychology core courses listed above
2.00 credits in Psychology at the 3000/4000 level

Note: Courses designated with (H) in Section XII—Course Descriptions, areHonours 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 B.A. major, major or minor, or B.C 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
PSYC*1100 [0.50] Principles of Behaviour
PSYC*1200 [0.50] Dynamics of Behaviour
1.50 electives*

Semester 2 - Winter
COOP*1100 [0.00] Introduction to Co-operative Education
PSYC*2010 [0.50] Quantification in Psychology
0.50 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*****
2.00 electives
* B.A. distribution requirements should be satisfied within the first 4 semesters
** at least two of these Psychology courses must be at the 4000 level
*** see Semester 4 requirements as not all core courses are available in the Summer Semester
**** PSYC*2310 and PSYC*2740 are normally available in the Summer Semester
***** the schedule for COOP*3000 and semester 8 requirements can be exchanged

Major (Honours Program) - Stream B

The following Co-op schedule of studies is recommended for those students intending to apply for graduate work in Psychology (includes 3 work terms and 18 Psychology courses).

Semester 1 - Fall
PSYC*1100 [0.50] Principles of Behaviour
PSYC*1200 [0.50] Dynamics of Behaviour
1.50 electives*

Semester 2 - Winter
COOP*1100 [0.00] Introduction to Co-operative Education
PSYC*2310 [0.50] Quantification in Psychology
1.00 Psychology core (other than PSYC*2310 or PSYC*2740)
1.00 electives*

Semester 3 - Summer
PSYC*2310 [0.50] Introduction to Social Psychology
PSYC*2740 [0.50] Psychology
1.50 electives*

Semester 4 - Fall
PSYC*2360 [0.50] Introductory Research Methods
PSYC*2040 [0.50] Research Statistics
1.00 Psychology core
0.50 electives*

Winter Semester
COOP*1000 [0.00] Co-op Work Term I

Semester 5 - Fall
PSYC*3370 [0.50] Experimental Design and Analysis
2.00 electives*

Semester 6 - Winter
PSYC*3250 [0.50] Psychological Measurement
PSYC*3380 [0.50] Non-experimental Research Methods
1.50 electives*

Semester 7 - Winter**
PSYC*4870 [0.50] Honours Thesis I
2.00 electives*

Semester 8 - Summer
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 at 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 specialization.

**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)**

**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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*1200</td>
<td>0.50</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>0.50</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MATH*2150</td>
<td>0.50</td>
<td>Applied Matrix Algebra</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
<tr>
<td>STAT*2050</td>
<td>0.50</td>
<td>Statistics II</td>
</tr>
<tr>
<td>STAT*3100</td>
<td>0.50</td>
<td>Introductory Mathematical Statistics I</td>
</tr>
<tr>
<td>STAT*3110</td>
<td>0.50</td>
<td>Introductory Mathematical Statistics II</td>
</tr>
<tr>
<td>STAT*3240</td>
<td>0.50</td>
<td>Applied Regression Analysis</td>
</tr>
<tr>
<td>STAT*3320</td>
<td>0.50</td>
<td>Sampling Theory with Applications</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISC*1500</td>
<td>0.50</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>0.50</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>0.50</td>
<td>Calculus II</td>
</tr>
</tbody>
</table>

5.00 credits in Statistics and Mathematics as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2130</td>
<td>0.50</td>
<td>Numerical Methods</td>
</tr>
<tr>
<td>MATH*2200</td>
<td>0.50</td>
<td>Advanced Calculus I</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
<tr>
<td>STAT*2050</td>
<td>0.50</td>
<td>Statistics II</td>
</tr>
<tr>
<td>STAT*3100</td>
<td>0.50</td>
<td>Introductory Mathematical Statistics I</td>
</tr>
<tr>
<td>STAT*3110</td>
<td>0.50</td>
<td>Introductory Mathematical Statistics II</td>
</tr>
<tr>
<td>STAT*3210</td>
<td>0.50</td>
<td>Experimental Design</td>
</tr>
<tr>
<td>STAT*3240</td>
<td>0.50</td>
<td>Applied Regression Analysis</td>
</tr>
<tr>
<td>STAT*3320</td>
<td>0.50</td>
<td>Sampling Theory with Applications</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2150</td>
<td>0.50</td>
<td>Applied Matrix Algebra</td>
</tr>
<tr>
<td>MATH*2160</td>
<td>0.50</td>
<td>Linear Algebra I</td>
</tr>
</tbody>
</table>

2.50 credits in Statistics at the 3000 or 4000 level, of which at least 2.00 credits must be at the 4000 level.

0.50 credits in Mathematics or Statistics at the 2000-level or above.

**Recommended Schedule of Studies for Major (Honours Program)**

**Semester 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*1200</td>
<td>0.50</td>
<td>Calculus I</td>
</tr>
<tr>
<td>2.00 electives*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISC*1500</td>
<td>0.50</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>0.50</td>
<td>Calculus II</td>
</tr>
<tr>
<td>1.50 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2200</td>
<td>0.50</td>
<td>Advanced Calculus I</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH*2150</td>
<td>0.50</td>
<td>Applied Matrix Algebra</td>
</tr>
<tr>
<td>MATH*2160</td>
<td>0.50</td>
<td>Linear Algebra I</td>
</tr>
<tr>
<td>1.00 electives**</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2130</td>
<td>0.50</td>
<td>Numerical Methods</td>
</tr>
<tr>
<td>STAT*2050</td>
<td>0.50</td>
<td>Statistics II</td>
</tr>
<tr>
<td>1.50 electives**</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 5**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT*3100</td>
<td>0.50</td>
<td>Introductory Mathematical Statistics I</td>
</tr>
<tr>
<td>STAT*3240</td>
<td>0.50</td>
<td>Applied Regression Analysis</td>
</tr>
<tr>
<td>STAT*3320</td>
<td>0.50</td>
<td>Sampling Theory with Applications</td>
</tr>
<tr>
<td>1.00 electives**</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 6**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT*3110</td>
<td>0.50</td>
<td>Introductory Mathematical Statistics II</td>
</tr>
<tr>
<td>STAT*3210</td>
<td>0.50</td>
<td>Experimental Design</td>
</tr>
<tr>
<td>1.50 electives**</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 7**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.50 electives**</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 8**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.50 electives**</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* See "Semester One Requirements" for Bachelor of Arts programs.
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 the 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 and minors 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

**Minor (Honours Program)**

A minimum of 6.00 credits is required, including:  

- a. the Studio Art core  
- b. 0.50 credits in Studio Art or Art History at the 4000 level  
- c. 1.50 additional credits in Art History including at least 0.50 credits at the 3000 level or above  
- d. 2.00 additional credits in Studio Art, including 0.50 credits from List A and 0.50 from List B

**List A**

- SART*2090 [0.50] Drawing I  
- SART*2200 [0.50] Painting I  
- SART*2460 [0.50] Introductory Printmaking I  
- SART*2470 [0.50] Introductory Printmaking II  
- SART*2610 [0.50] Photography I  
- SART*2700 [0.50] Introduction to Computer Graphics  
- SART*2710 [0.50] Drawing Graphics on the Computer  
- SART*3090 [0.50] Drawing II  
- SART*3200 [0.50] Painting II  
- SART*3410 [0.50] Intaglio  
- SART*3450 [0.50] Lithography  
- SART*3470 [0.50] Photo-Printmaking  
- SART*3480 [0.50] Web Development and Design  
- SART*3600 [0.50] Digital & Non-Silver Photography  
- SART*3750 [0.50] Photography II  
- SART*4090 [0.50] Drawing III  
- SART*4130 [1.00] Drawing IV  
- SART*4200 [0.50] Painting III  
- SART*4230 [0.50] Special Topics in Painting  
- SART*4240 [1.00] Painting IV  
- SART*4410 [0.50] Experimental Printmaking  
- SART*4470 [1.00] Advanced Printmaking  
- SART*4700 [0.50] Photography III  
- SART*4720 [1.00] Photography IV  
- SART*4890 [1.00] Interactive Multimedia

**List B**

- SART*2300 [0.50] Sculpture I  
- SART*2800 [0.50] Extended Practices I  
- SART*3300 [0.50] Sculpture II  
- SART*3770 [0.50] Extended Practices II  
- SART*4300 [0.50] Sculpture III  
- SART*4330 [1.00] Senior Sculpture  
- SART*4660 [0.50] Topics in Extended Practices  
- SART*4670 [0.50] Topics in Extended Practices  
- SART*4800 [0.50] Special Topics in Sculpture  
- SART*4810 [0.50] Extended Practices III  
- SART*4870 [0.50] Special Topics in Sculpture  
- SART*4880 [1.00] Extended Practices IV

**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.

3. Students in Theatre Studies with THST*1040 and some upper-level courses, students are required as part of the course to attend various specified theatre performances in cities such as Toronto, Stratford, Niagara-on-the-Lake, and London. A special fee is charged for travel to these performances and students will be notified during the first week of classes of the amount of this fee and the dates of the performances.
c. at least one of ENGL*3420, THST*3650, THST*3660
d. 1.50 other credits in Theatre Studies

**Major (Honours Program)**

A minimum of 9.00 credits in Theatre Studies is required, including:

a. THST*1040, THST*1150, THST*2010, THST*2230, THST*3550, THST*3850, THST*4280
b. two of THST*2080, THST*2120, THST*2240
c. at least one of ENGL*3420, THST*3650, THST*3660
d. at least one of THST*4320 or THST*4330
e. 2.50 other credits in Theatre Studies

**Minor (Honours Program)**

A minimum of 5.00 credits in Theatre Studies is required, including:

a. THST*1040, THST*2010, THST*2230, THST*3550, THST*3850
b. at least one of THST*2080, THST*2120, THST*2240
c. at least one of ENGL*3420, THST*3650, THST*3660
d. 1.50 other credits in Theatre Studies

**Visual Arts of the Americas (VAA)**

**School of Fine Art and Music**

The Minor program in Visual Arts of the Americas enables students to study the art history of Canada, the United States, and Central and South America as an integrated field where certain basic conditions are shared: the existence of aboriginal traditions persisting from the pre-conquest period, the confrontation of a variety of European, African and Asian cultural heritages, and a continuing post-colonial evolution producing hybrid cultural identities.

This program of study is designed as a complement to a significant number of Major specialization, suitable for any student wishing to broaden their knowledge beyond their Major area of study.

**Minor (Honours Program)**

(May not be taken in combination with Art History Honours Major).

A minimum of 5.00 credits is required, including:

a. ARTH*1220 [0.50] The Visual Arts Today
ARTH*1510 [0.50] Art Historical Studies I
ARTH*1520 [0.50] Art Historical Studies II
b. 3.50 additional credits in Art History as follows:
ARTH*2480 [0.50] Introduction to Art Theory and Criticism
   Two of:
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
   Two of:
ARTH*3010 [0.50] Contemporary Canadian Art
ARTH*3050 [0.50] Pre-Columbian Art
ARTH*3060 [0.50] Public Art
   One of:
ARTH*4310 [1.00] Topics in Art & Visual Culture I
ARTH*4320 [1.00] Topics in Art & Visual Culture II
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 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.

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

The BAS Science Core Requirements would be:

| Agriculture                  | BIOL*1070, BIOL*1090, [(CHEM*1040, CHEM*1050) or (MATH*1080, STAT*2040)] |
| Biochemistry                | BIOL*1080, BIOL*1090, CHEM*1040, CHEM*1050 |
| Biology                     | BIOL*1070, BIOL*1090, [(CHEM*1040, CHEM*1050) or (MATH*1080, STAT*2040)] |
| Biotechnology               | BIOL*1080, BIOL*1090, CHEM*1040, CHEM*1050 |
| Chemistry                   | CHEM*1040, CHEM*1050, MATH*1200, MATH*1210 |
| Computing & Information Science | CIS*1500, CIS*1910, STAT*2040, STAT*2050 |
| Ecology                     | BIOL*1070, BIOL*1090, STAT*2040, (MATH*1080 or MATH*1200) |
| GIS & Environmental Analysis | ENV*1050, GEOG*1300, STAT*2040, (MATH*1080 or MATH*1200) |
| Mathematics                 | MATH*1200, MATH*1210, STAT*2040, STAT*2050 |
| Mathematical Sciences       | MATH*1200, MATH*1210, STAT*2040, STAT*2050 |
| Microbiology                | BIOL*1080, BIOL*1090, CHEM*1040, CHEM*1050 |
| Molecular Biology and Genetics | BIOL*1080, BIOL*1090, (CHEM*1040, CHEM*1050) |
| Neuroscience                | BIOL*1080, BIOL*1090, CHEM*1040, CHEM*1050 |
| Nutritional and Nutraceutical Sciences | BIOL*1080, BIOL*1090, CHEM*1040, CHEM*1050 |
| Plant Science               | BIOL*1070, BIOL*1090, CHEM*1040, CHEM*1050 |
| Physics                     | PHYS*1000, PHYS*1010, MATH*1200, MATH*1210 |
| Psychology: Brain and Cognition | MATH*1080, STAT*2040, [(CHEM*1040, CHEM*1050) or (2 of BIOL*1070, BIOL*1090)] |
| Statistics                  | MATH*1200, MATH*1210, STAT*2040, STAT*2050 |
| Zoology                     | BIOL*1070, BIOL*1090, [(CHEM*1040, CHEM*1050) or [STAT*2040, (MATH*1080 or MATH*1200)]] |

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; GERM - 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; SART - Studio Art; THST - Theatre Studies; WMST - Women's 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

Counselling on Minors

Academic departments offer the minors in the B.A.S. program and assign faculty advisors to assist students with academic planning (e.g., a faculty advisor in the History department handles queries about a minor in History). Students should consult the appropriate faculty advisor, along with the B.A.S. 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/uaic/students_faculty.shtml](http://www.uoguelph.ca/uaic/students_faculty.shtml) or contact the B.A.S. Program Counsellor for further information.

Continuation of Study

To be eligible to continue in the program, students must meet the requirements for Continuation of Study as noted in Section VIII—Undergraduate Degree Regulations & Procedures of this calendar (Schedules 1 and 2).

Conditions for Graduation

To qualify for the degree Bachelor of Arts and Sciences, the student must successfully complete a minimum of 20.00 credits as identified below. In addition, students must meet the continuation of study requirements at the time of graduation and have a 60.00% cumulative average.

Distribution Requirements

This program will require the completion of 20.00 credits as indicated below, with a maximum of 7.00 credits at the 1000 level. First year core courses may be counted towards the minors.

1. Science Core - 2.00 credits
2. Arts/Social Science core - 2.00 credits
3. Subject Area Core - (ASCI*) - 3.00 credits
4. Arts/Social Science Minor - 5.00 credits minimum
5. Science Minor - 5.00 credits minimum
6. Free Electives - 3.00 credits
X. Degree Programs, Bachelor of Arts and Sciences (B.A.S.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASCI*2000</td>
<td>0.50</td>
<td>Modes of Inquiry and Communication Across Disciplines</td>
</tr>
<tr>
<td>ASCI*3000</td>
<td>0.50</td>
<td>Arts and Sciences Community Project</td>
</tr>
<tr>
<td>ASCI*3100</td>
<td>0.50</td>
<td>Case Studies in Arts and Sciences Research</td>
</tr>
<tr>
<td>ASCI*3700</td>
<td>0.50</td>
<td>Independent Studies in Arts/Sciences</td>
</tr>
<tr>
<td>ASCI*4000</td>
<td>0.50</td>
<td>Arts and Sciences Honours Seminar</td>
</tr>
<tr>
<td>ASCI*4010</td>
<td>0.50</td>
<td>Arts and Sciences Honours Research Seminar</td>
</tr>
<tr>
<td>ASCI*4020</td>
<td>0.50</td>
<td>Topics in Arts and Sciences Research</td>
</tr>
<tr>
<td>ASCI*4030</td>
<td>0.50</td>
<td>Topics in Arts and Sciences Research</td>
</tr>
<tr>
<td>ASCI*4700</td>
<td>0.50</td>
<td>Independent Studies in Arts/Sciences</td>
</tr>
<tr>
<td>ASCI*4710</td>
<td>0.50</td>
<td>Independent Studies in Arts/Sciences</td>
</tr>
</tbody>
</table>

• 0.50 credits from:
• 1.00 credits from:

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
- Art Theory and Criticism
- 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
- Studio Art
- Theater Studies
- Visual Art of the Americas

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
- Food Science
- Forest Systems
- Functional Foods & Nutraceuticals
- Geology
- 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 km@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)
Dean’s Office OAC
This major will require the completion of 20.00 credits.

Semesters 1 to 4 offered at the Ridgetown campus
Semester 1
BIOL*1030 [0.50] Biology I
CS*1000 [0.50] Introduction to Computer Applications

Semester 2
AGR*1050 [0.50] Communication Skills
BIOL*1040 [0.50] Biology II
ENVM*1020 [0.50] Introduction to Environmental Microbiology
ENVM*1150 [0.50] Water Resource Management

Semester 3
CHEM*1040 [0.50] General Chemistry I
ENVM*1090 [0.50] Occupational Health and Safety
ENVM*1050 [0.50] Surveying and GIS
ENVM*1100 [0.50] Ecology

Semester 4
AGR*2100 [0.50] Human Resource Management
ECON*1050 [0.50] Introductory Microeconomics
ENVM*2500 [0.50] Integrated Project (Environmental)
FARE*1100 [0.50] Introduction to Business

Electives Available at Ridgetown:
ENVM*1070 [0.50] Nutrient Management
ENVM*1120 [0.50] Environmental Monitoring
ENVM*1130 [0.50] Introduction to Renewable Energy Management
ENVM*2500 [0.50] Agriculture and Environmental Stewardship
ENVM*2600 [0.50] Sewage and Wastewater Treatment
ENVM*2700 [0.50] Water Treatment
ENVM*2800 [0.50] Industrial Waste Management
ENVM*2900 [0.50] Spills Response Planning

Semesters 5 to 8 offered on Guelph campus
Semester 5
AGR*4100 [0.50] Experiential Education I
FARE*2700 [0.50] Survey of Natural Resource Economics
ENVM*3080 [0.50] Soil and Water Conservation
1.00 electives or restricted electives

Semester 6
MET*2020 [0.50] Agrometeorology
NRS*3000 [0.50] Environmental Issues in Agriculture and Landscape Management
STAT*2060 [0.50] Statistics for Business Decisions
1.00 electives or restricted electives

Semester 7
FARE*4290 [0.50] Land Economics
One of:
NRS*4110 [0.50] Natural Resources Management Field Camp
SOIL*4250 [0.50] Soils in the Landscape
1.50 electives or restricted electives

Students choosing NRS*4110 must choose electives in 3rd year to obtain the required prerequisites.

Semester 8
FARE*4310 [0.50] Resource Economics
GEOL*3060 [0.50] Groundwater
GEOS*3420 [0.50] Remote Sensing of the Environment
1.00 electives or restricted electives

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.

Restricted Electives
Students would be required to take a minimum of 2.00 credits from one or more of the following groups and should consult with a faculty advisor in planning their choice. Students are advised to pay particular attention to pre-requisite requirements when choosing individual courses, and seek advice as needed.

Nutrient Management
ENVM*4020 [0.50] Water Quality and Environmental Management
PBIO*4100 [0.50] Soil Plant Relationships
SOIL*3060 [0.50] Environmental Soil Chemistry
SOIL*3070 [0.50] Environmental Soil Physics
SOIL*3280 [0.50] Environmental Soil Biology
SOIL*4900 [0.50] Soil Management
SOIL*4130 [0.50] Soil and Nutrient Management

Last Revision: March 15, 2014
### Natural Resource Management

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVB*2030</td>
<td>Current Issues in Forest Science</td>
</tr>
<tr>
<td>ENVB*3330</td>
<td>Ecosystem Processes and Applications</td>
</tr>
<tr>
<td>ENVB*4020</td>
<td>Water Quality and Environmental Management</td>
</tr>
<tr>
<td>ENVB*4780</td>
<td>Forest Ecology</td>
</tr>
<tr>
<td>GEOG*3610</td>
<td>Environmental Hydrology</td>
</tr>
<tr>
<td>NRS*2120</td>
<td>Introduction to Environmental Stewardship</td>
</tr>
<tr>
<td>NRS*3100</td>
<td>Resource Planning Techniques</td>
</tr>
<tr>
<td>SOIL*3050</td>
<td>Land Utilization</td>
</tr>
</tbody>
</table>

### Environmental Protection

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*2580</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>ENVB*2040</td>
<td>Plant Health and the Environment</td>
</tr>
<tr>
<td>ENVB*3030</td>
<td>Pesticides and the Environment</td>
</tr>
<tr>
<td>ENVB*3330</td>
<td>Ecosystem Processes and Applications</td>
</tr>
<tr>
<td>ENVB*4240</td>
<td>Biological Activity of Pesticides</td>
</tr>
<tr>
<td>MICR*4140</td>
<td>Soil Microbiology and Biotechnology</td>
</tr>
<tr>
<td>MICR*4180</td>
<td>Microbial Processes in Environmental Management</td>
</tr>
<tr>
<td>PBIO*4530</td>
<td>Environmental Pollution Stresses on Plants</td>
</tr>
</tbody>
</table>

### Equine Management Major (EQM)

#### Dean's Office OAC

This major will require the completion of 20.00 credits.

*Students enrolling in the Equine Management major will be required to submit an equine background information form.*

#### Semesters 1 to 4 offered at the Kemptville campus

**Semester 1 - Fall**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1030</td>
<td>Biology I</td>
</tr>
<tr>
<td>ENVM*1090</td>
<td>Occupational Health and Safety</td>
</tr>
<tr>
<td>EQN*1020</td>
<td>Equine Management I</td>
</tr>
<tr>
<td>EQN*1060</td>
<td>Equine Event Management I</td>
</tr>
<tr>
<td>EQN*1100</td>
<td>Introduction to Equine Industry Trends and Issues</td>
</tr>
<tr>
<td>SOIL*2010</td>
<td>Soil Science</td>
</tr>
</tbody>
</table>

**Semester 2 - Winter**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*1050</td>
<td>Communication Skills</td>
</tr>
<tr>
<td>BIOL*1040</td>
<td>Biology II</td>
</tr>
<tr>
<td>CIS*1000</td>
<td>Introduction to Computer Applications</td>
</tr>
<tr>
<td>EQN*1030</td>
<td>Equine Management II</td>
</tr>
<tr>
<td>EQN*1050</td>
<td>Equine Facility Management and Design</td>
</tr>
<tr>
<td>EQN*1070</td>
<td>Equine Event Management II</td>
</tr>
</tbody>
</table>

**Semester 3 - Fall**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*2030</td>
<td>Pasture Management</td>
</tr>
<tr>
<td>ECON*1050</td>
<td>Introductory Microeconomics</td>
</tr>
<tr>
<td>EQN*2020</td>
<td>Stable Management</td>
</tr>
<tr>
<td>EQN*2040</td>
<td>Equine Anatomy and Physiology</td>
</tr>
<tr>
<td>One of</td>
<td></td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM*1100</td>
<td>Chemistry Today</td>
</tr>
</tbody>
</table>

**Semester 4 - Winter**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*2220</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>AGR*2100</td>
<td>Human Resource Management</td>
</tr>
<tr>
<td>EQN*2050</td>
<td>Introduction to Equine Nutrition</td>
</tr>
<tr>
<td>EQN*2200</td>
<td>Equine Industry Trends and Issues I</td>
</tr>
<tr>
<td>FARE*1100</td>
<td>Introduction to Business</td>
</tr>
</tbody>
</table>

#### Semesters 5 to 8 offered at the Guelph campus

**Semester 5 - Fall**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*2350</td>
<td>Animal Production Systems, Health and Industry</td>
</tr>
<tr>
<td>AGR*3500</td>
<td>Experiential Education I</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>Introductory Marketing</td>
</tr>
<tr>
<td>One of</td>
<td></td>
</tr>
<tr>
<td>SOIL*3080</td>
<td>Soil and Water Conservation</td>
</tr>
<tr>
<td>SOIL*4090</td>
<td>Soil Management</td>
</tr>
<tr>
<td>SOIL*4130</td>
<td>Soil and Nutrient Management</td>
</tr>
<tr>
<td></td>
<td>0.50 electives</td>
</tr>
</tbody>
</table>

**Semester 6 - Winter**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC*3210</td>
<td>Principles of Animal Care and Welfare</td>
</tr>
<tr>
<td>EQN*3050</td>
<td>Equine Exercise Physiology</td>
</tr>
<tr>
<td>NRS*3000</td>
<td>Environmental Issues in Agriculture and LandscapeManagement</td>
</tr>
<tr>
<td>STAT*2060</td>
<td>Statistics for Business Decisions</td>
</tr>
<tr>
<td></td>
<td>0.50 electives</td>
</tr>
</tbody>
</table>

**Semester 7 - Fall**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FARE*3310</td>
<td>Operations Management</td>
</tr>
<tr>
<td></td>
<td>2.00 electives</td>
</tr>
</tbody>
</table>

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) honors 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 unspecialized 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:

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ECON*1050</td>
<td>[0.50]</td>
</tr>
<tr>
<td></td>
<td>ECON*1100</td>
<td>[0.50]</td>
</tr>
<tr>
<td></td>
<td>MATH*1030</td>
<td>[0.50]</td>
</tr>
<tr>
<td></td>
<td>MCS*1000</td>
<td>[0.50]</td>
</tr>
<tr>
<td></td>
<td>MGMT*1000</td>
<td>[0.50]</td>
</tr>
<tr>
<td></td>
<td>ECON*2740</td>
<td>[0.50]</td>
</tr>
<tr>
<td></td>
<td>BUS*3320</td>
<td>[0.50]</td>
</tr>
<tr>
<td>2</td>
<td>ACCT*2220</td>
<td>[0.50]</td>
</tr>
<tr>
<td></td>
<td>ACCT*2230</td>
<td>[0.50]</td>
</tr>
<tr>
<td></td>
<td>ECON*2560</td>
<td>[0.50]</td>
</tr>
<tr>
<td></td>
<td>HROB*2100</td>
<td>[1.00]</td>
</tr>
<tr>
<td>3</td>
<td>BUS*3320</td>
<td>[0.50]</td>
</tr>
<tr>
<td></td>
<td>MGMT*4000</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

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
  - ECON*2310 or HTM*3080, MCS*2600
- Information Management
  - CIS*1200 or MCS*2020
- Law
  - HROB*3050, MCS*3040, REAL*4840
- Operations
  - FARE*3310, FARE*4500, HTM*3120, REAL*3890
- Statistics
  - ECON*2740 or STAT*2600

Program Information

Academic Counselling

Program 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/uac/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
- 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
Double Counting of Courses

Double counting is not permitted within the B.Comm. Program. For example, students cannot use courses required in their schedule of studies to meet the Liberal Education Requirement.

Schedule of Studies

Courses specified in the schedule of studies are required courses and must be completed successfully. A full course load normally involves 2.50 credits per semester. Part-time study is also possible although students should discuss this option with their Program Counsellor or Faculty Advisor.

Undeclared (UND)

College of Management and Economics

Applicants to the B.Comm. program who want a flexible introduction to business studies should consider entering as an unspecialized student. Prior to winter course selection in first year undeclared students must declare one of the 9 majors in order to gain access to required courses.

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.

Major

Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
<td>Introductory Microeconomics</td>
</tr>
<tr>
<td>MATH*1030</td>
<td>0.50</td>
<td>Business Mathematics</td>
</tr>
<tr>
<td>MGMT*1000</td>
<td>1.00</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT*2220</td>
<td>0.50</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>ECON*1100</td>
<td>0.50</td>
<td>Introductory Macroeconomics</td>
</tr>
<tr>
<td>HROB*2100</td>
<td>1.00</td>
<td>Managing People in Organizations</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>0.50</td>
<td>Introductory Marketing</td>
</tr>
<tr>
<td>Semester 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT*2230</td>
<td>0.50</td>
<td>Management Accounting</td>
</tr>
<tr>
<td>ACCT*2240</td>
<td>0.50</td>
<td>Applied Financial Accounting</td>
</tr>
<tr>
<td>STAT*2060</td>
<td>0.50</td>
<td>Statistics for Business Decisions</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CJS*1100</td>
<td>0.50</td>
<td>Introduction to Computing</td>
</tr>
<tr>
<td>MCS*2020</td>
<td>0.50</td>
<td>Marketing Information Management *</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT*3330</td>
<td>0.50</td>
<td>Intermediate Financial Accounting I</td>
</tr>
<tr>
<td>BUS*3320</td>
<td>0.50</td>
<td>Financial Management</td>
</tr>
<tr>
<td>ECON*2560</td>
<td>0.50</td>
<td>Theory of Finance</td>
</tr>
<tr>
<td>MCS*3040</td>
<td>0.50</td>
<td>Business and Consumer Law</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT*3280</td>
<td>0.50</td>
<td>Auditing I</td>
</tr>
<tr>
<td>ACCT*3340</td>
<td>0.50</td>
<td>Intermediate Financial Accounting II</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON*2310</td>
<td>0.50</td>
<td>Intermediate Microeconomics</td>
</tr>
<tr>
<td>MCS*2600</td>
<td>0.50</td>
<td>Fundamentals of Consumer Behaviour</td>
</tr>
<tr>
<td>1.00 electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT*3230</td>
<td>0.50</td>
<td>Intermediate Management Accounting</td>
</tr>
<tr>
<td>FARE*3310</td>
<td>0.50</td>
<td>Operations Management</td>
</tr>
</tbody>
</table>

* These courses are offered in the Fall semester only

* Note: Students taking courses in the CA stream may take MCS*2020 in semester 3 or 4.

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
Semester 7

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*3350</td>
<td>0.50</td>
</tr>
<tr>
<td>ACCT*4220</td>
<td>0.50</td>
</tr>
<tr>
<td>MGMT*4000</td>
<td>1.00</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*4270</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.50 electives

Semester 8

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*4230</td>
<td>1.00</td>
</tr>
<tr>
<td>MGMT*4260</td>
<td>1.00</td>
</tr>
</tbody>
</table>

1.00 electives

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.

Restricted Electives

1.50 credits must come from one of the two following streams:

Agriculture Stream

- Three of:
  - FARE*1300 [0.50] Poverty, Food & Hunger
  - FARE*2050 [0.50] Markets for Molecules
  - FARE*3170 [0.50] Cost-Benefit Analysis
  - FARE*3400 [0.50] Agribusiness Financial Management
  - FARE*4210 [0.50] World Agriculture and Economic Development
  - FARE*4290 [0.50] Land Economics
  - FARE*4310 [0.50] Resource Economics
  - FARE*4360 [0.50] Marketing Research
  - FARE*4500 [0.50] Decision Science

- Two of:
  - 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
  - FOOD*3090 [0.50] Food Science and Human Nutrition

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 or restricted 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

Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*1100</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1030</td>
<td>0.50</td>
</tr>
<tr>
<td>MGMT*1000</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*1250</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*1100</td>
<td>0.50</td>
</tr>
<tr>
<td>HRPB*2100</td>
<td>1.00</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*2220</td>
<td>0.50</td>
</tr>
<tr>
<td>AGR*2400</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2310</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2740</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1200</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*2020</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*2230</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2410</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2770</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*2410</td>
<td>0.50</td>
</tr>
</tbody>
</table>
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](http://www.leadershipcertificate.com) for information regarding this Certificate and its course requirements.

### Major

#### Semester 1 - Fall

- **AGR*1100** [0.50] Introduction to the Agrifood Systems
- **ECON*1050** [0.50] Introductory Microeconomics
- **MATH*1030** [0.50] Business Mathematics
- **MGMT*1000** [1.00] Introduction to Business

#### Semester 2 - Winter

- **AGR*1250** [0.50] Agrifood System Trends & Issues
- **ECON*1100** [0.50] Introduction to Macroeconomics
- **HRRO*2100** [1.00] Managing People in Organizations
- **MCS*1000** [0.50] Introductory Marketing

#### Semester 3 - Fall

- **ACCT*2220** [0.50] Financial Accounting
- **AGR*2400** [0.50] Economics of the Canadian Food System
- **COOP*1100** [0.00] Introduction to Co-operative Education
- **ECON*2310** [0.50] Intermediate Microeconomics
- **ECON*2740** [0.50] Economic Statistics

One of:

- **CIS*1200** [0.50] Introduction to Computing
- **MCS*2020** [0.50] Marketing Information Management

#### 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

- **BUS*3320** [0.50] Financial Management
- **ECON*3740** [0.50] Introduction to Econometrics
- **FARE*3310** [0.50] Operations Management
- **FARE*4240** [0.50] Futures and Options Markets

0.50 electives or restricted electives

#### Summer Semester

- **COOP*3000** [0.00] Co-op Work Term III

#### Semester 6 - Fall

- **ECON*2560** [0.50] Theory of Finance
- **FARE*2700** [0.50] Survey of Natural Resource Economics

One of:

- **ENVS*4300** [0.50] Environmental Law & Regulation
- **HRRO*3500** [0.50] Employment Law
- **MCS*3040** [0.50] Business and Consumer Law
- **REAL*4840** [0.50] Housing and Real Estate Law

1.00 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

0.50 electives or restricted electives

#### Semester 8 - Winter

- **AGR*4500** [0.50] Agrifood Industry Problem-Solving
- **FARE*4000** [0.50] Agricultural and Food Policy
- **FARE*4220** [0.50] Advanced Agribusiness Management

1.00 electives or restricted electives

#### Restricted Electives

1.50 credits must come from one of the two following streams:

### Agribusiness Stream

Three of:

- **FARE*1300** [0.50] Poverty, Food & Hunger
- **FARE*2050** [0.50] Markets for Molecules
- **FARE*3170** [0.50] Cost-Benefit Analysis
- **FARE*3400** [0.50] Agribusiness Financial Management
- **FARE*4210** [0.50] World Agriculture and Economic Development
- **FARE*4290** [0.50] Land Economics
- **FARE*4310** [0.50] Resource Economics
- **FARE*4360** [0.50] Marketing Research
- **FARE*4500** [0.50] Decision Science

### Agricultural Science Stream

- **BIOI*1020** [0.50] Introduction to Biology

Two of:

- **AGR*2230** [0.50] Soils in Agroecosystems
- **AGR*2350** [0.50] Animal Production Systems, Health and Industry
- **AGR*2470** [0.50] Introduction to Plant Agriculture
- **FOOD*3090** [0.50] Food Science and Human Nutrition

### 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 administration, 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](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
- **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
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*1200 [0.50] Dynamics of Behaviour

Courses related to the study of tourism:
- EDRD*3580 [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 related to institutional food service management:
- AGR*1250 [0.50] Agrifood System Trends & Issues
- 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
- MGM*4260 [0.50] International Business
- FARE*3310 [0.50] Operations Management
- MCS*2100 [0.50] 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:
- CIS*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
- MGM*4050 [0.50] Applied Community Project I
- MGM*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 http://www.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
MCS*1000 [0.50] Introductory Marketing
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

Summer Semester
COOP*1000 [0.00] Co-op Work Term I

Fall Semester
COOP*2000 [0.00] Co-op Work Term II

Winter Semester
COOP*3000 [0.00] Co-op Work Term III

Semester 4 - Winter
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

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 Professional Association (HRPA) as a Certified Human Resources Professional (CHR). 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, Excellibur Human Resource Case Competition, careers night, guest speakers and social events to help students build relationships with other students, 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

Semester 2
ECON*1100 [0.50] Introductory Macroeconomics
HTM*2100 [0.50] Lodging Operations
MATH*1030 [0.50] Business Mathematics

2.50 from List A or List B or electives

Semester 3
ACCT*1000 [0.00] Financial Accounting
ACCT*2000 [0.50] Industrial Relations

One of:
ECON*2310 [0.50] Intermediate Microeconomics
MCS*2600 [0.50] Fundamentals of Consumer Behaviour

Summer Semester
COOP*2220 [0.50] Co-op Work Term I

Fall Semester
COOP*2220 [0.50] Co-op Work Term II

Winter Semester
COOP*2220 [0.50] Co-op Work Term III

Semester 4
ACCT*2230 [0.50] Management Accounting
CIS*1200 [0.50] Introduction to Computing

1.00 electives

Semester 5
ECON*2560 [0.50] Theory of Finance
HTM*3010 [0.50] Compensation Systems
HROB*3050 [0.50] Employment Law
HROB*3070 [0.50] Recruitment and Selection

0.50 electives

Semester 6
BUS*3320 [0.50] Financial Management
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

Semester 7
HROB*4100 [1.00] Applied Research in Human Resources Management
MGMT*4000 [1.00] Strategic Management
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. 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 through one of the areas of emphasis.

Major

Semester 1
ECON*1050 [0.50] Introductory Microeconomics
MATH*1030 [0.50] Business Mathematics
MGMT*1000 [1.00] Introduction to Business
Note: MATH*1200 is required for the Finance Area of Emphasis. MCG*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 I
MCS*1000 [0.50] Introductory Marketing

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
BUS*3320 [0.50] Financial Management
ECON*2410 [0.50] Intermediate Macroeconomics
ECON*2560 [0.50] Theory of Finance
MGST*3040 [0.50] Business and Consumer Law *
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 must select HROB*3050 or REAL*4500 in place of MCG*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:

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.

In addition to the economics 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 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

386 X. Degree Programs, Bachelor of Commerce (B.Comm.)
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)  
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

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*4790 [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  
HROB*3090 [0.50] Training and Development  
HROB*4060 [0.50] Human Resources Planning

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  
HROB*4100 [1.00] Applied Research in Human Resources Management  
POLS*2250 [0.50] Public Administration and Governance  
POLS*3440 [0.50] Corruption, Scandal and Political Ethics

Courses in Public Administration:  
ECON*3610 [0.50] Public Economics  
POLS*2250 [0.50] Public Administration and Governance  
POLS*2300 [0.50] Canadian Government and Politics  
POLS*3210 [0.50] The Constitution and Canadian Federalism  
POLS*3250 [0.50] Public Policy: Challenges and Prospects  
POLS*3270 [0.50] Local Government in Ontario  
POLS*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*2050 [0.50] Markets for Molecules  
FARE*2410 [0.50] Agrifood Markets and Policy  
FARE*3030 [0.50] The Firm and Markets

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 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.

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 below. 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 through one of the areas of emphasis.

Major

Semester 1 - Fall

ECON*1050 [0.50] Introductory Microeconomics  
MATH*1000 [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 - 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*2220 [0.50] Management Accounting  
COOP*1100 [0.00] Introduction to Co-operative Education  
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 - Winter

BUS*3320 [0.50] Financial Management  
ECON*2410 [0.50] Intermediate Macroeconomics  
ECON*2560 [0.50] Theory of Finance  
MCS*3040 [0.50] Business and Consumer Law *

One of:  
MCS*3000 [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.
### FINANCE Area of Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3710</td>
<td>Advanced Microeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4560</td>
<td>Advanced Topics in Finance</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.50 credits from the following Finance courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3660</td>
<td>Economics of Equity Markets</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*3760</td>
<td>Fundamentals of Derivatives **</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*3860</td>
<td>International Finance</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*3960</td>
<td>Money, Credit and the Financial System</td>
<td>0.50</td>
</tr>
</tbody>
</table>

** Note that FARE*4240 may be substituted for this course.

One of:

- FARE*3310 Operations Management
- FARE*4500 Decision Science
- REAL*3890 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.

### 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 department advisor to declare an area of emphasis.

### Courses to prepare for the Certified Human Resource Professional (CHRP) designation:

(see [http://www.uoguelph.ca/business/academic-advisor-careers-chrp.shtml](http://www.uoguelph.ca/business/academic-advisor-careers-chrp.shtml) for more information)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3710</td>
<td>Advanced Microeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4560</td>
<td>Advanced Topics in Finance</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.50 credits from the following Finance courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3660</td>
<td>Economics of Equity Markets</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*3760</td>
<td>Fundamentals of Derivatives **</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*3860</td>
<td>International Finance</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*3960</td>
<td>Money, Credit and the Financial System</td>
<td>0.50</td>
</tr>
</tbody>
</table>

** Note that FARE*4240 may be substituted for this course.

One of:

- ECON*3100 Game Theory
- ECON*3810 Advanced Macroeconomics
- ECON*4700 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):

(see [http://www.cfa.com/](http://www.cfa.com/) for additional information)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*3300</td>
<td>Intermediate Financial Accounting I</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4400</td>
<td>Economics of Organizations and Corporate Governance</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4660</td>
<td>Financial Markets Risk Management</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4750</td>
<td>Topics in Public Economics</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4760</td>
<td>Topics in Monetary Economics</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4780</td>
<td>Topics in Industrial Organization</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4800</td>
<td>Competitiveness and Strategic Advantage</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4880</td>
<td>Topics in International Economics</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### Courses in Quantitative Finance:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*4640</td>
<td>Applied Econometrics I</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4840</td>
<td>Applied Econometrics II</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*2160</td>
<td>Linear Algebra I</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*3100</td>
<td>Introductory Mathematical Statistics I</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*3110</td>
<td>Introductory Mathematical Statistics II</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### Courses in preparation for post-graduate work in Economics (MA):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*4640</td>
<td>Applied Econometrics I</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4710</td>
<td>Advanced Topics in Microeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4810</td>
<td>Advanced Topics in Macroeconomics</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### MANAGEMENT Area of Emphasis

1.50 credits from the following Finance courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3660</td>
<td>Economics of Equity Markets</td>
<td>0.50</td>
</tr>
</tbody>
</table>

** Note: 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 Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS*4550</td>
<td>0.50</td>
</tr>
<tr>
<td>BUS*4560</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2650</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*3300</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*4930</td>
<td>0.50</td>
</tr>
<tr>
<td>HROB*3030</td>
<td>0.50</td>
</tr>
<tr>
<td>REAL*2850</td>
<td>0.50</td>
</tr>
<tr>
<td>MGMT*3020</td>
<td>0.50</td>
</tr>
<tr>
<td>MGMT*4050</td>
<td>0.50</td>
</tr>
<tr>
<td>MGMT*4060</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Courses in Marketing:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCS*2600</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*3000</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*3010</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*3620</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*4400</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*2050</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*2410</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*3030</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*4000</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*4220</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Courses in Food and Agribusiness:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FARE*2050</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*2410</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*3030</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*4000</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*4220</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Marketing Management (MKMN)

- **Department of Marketing and Consumer Studies, College of Management and Economics**

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/](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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>GMGT*1000</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**Semester 2 - Winter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*2220</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*1100</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Semesters 1 or 2 - Fall or Winter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*1030</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*1200</td>
<td>0.50</td>
</tr>
<tr>
<td>0.50 Marketing Environment electives (see List E1)</td>
<td>0.50 electives</td>
</tr>
</tbody>
</table>

**Semester 3 - Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*2230</td>
<td>0.50</td>
</tr>
<tr>
<td>HROB*2100</td>
<td>1.00</td>
</tr>
<tr>
<td>MCS*2000</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Semester 4 - Winter**

- **One of:**
  - ECON*2740 | 0.50 | Economic Statistics
  - STAT*2060 | 0.50 | Statistics for Business Decisions

**Seminars 3 or 4 - Fall or Winter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCS*2020</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*2600</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*3040</td>
<td>0.50</td>
</tr>
<tr>
<td>0.50 History/Global Perspective electives (see List E2)</td>
<td>0.50 electives</td>
</tr>
</tbody>
</table>

**Semester 5 - Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCS*3030</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Semester 6 - Winter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCS*3500</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Seminars 5 or 6 - Fall or Winter**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS*3320</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2560</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*3310</td>
<td>0.50</td>
</tr>
<tr>
<td>HROB*3100</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*3620</td>
<td>0.50</td>
</tr>
<tr>
<td>0.50 Leadership/Professionalism electives (see List E3)</td>
<td>1.00 electives</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*1250</td>
<td>0.50</td>
</tr>
<tr>
<td>ANTH*1150</td>
<td>0.50</td>
</tr>
<tr>
<td>ARTH*1250</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*1400</td>
<td>0.50</td>
</tr>
<tr>
<td>FRHD*1010</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*1200</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*1220</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*2510</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2610</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*3150</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2500</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2700</td>
<td>0.50</td>
</tr>
<tr>
<td>ISCI*1100</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH*2490</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1500</td>
<td>0.50</td>
</tr>
<tr>
<td>EURO*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*2030</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*1150</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2500</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2700</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST*2250</td>
<td>0.50</td>
</tr>
<tr>
<td>SOC*1100</td>
<td>0.50</td>
</tr>
</tbody>
</table>
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
- MCS*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

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
- 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
- MGMT*4100 [0.50] Entrepreneurship
- MGMT*4202 [0.50] Research in Consumer Studies
- MGMT*4300 [0.50] Marketing and Society
- MGMT*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 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 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*1200 [0.50] Dynamics of Behaviour
- 0.50 Marketing Environment electives (see List E1)
- 0.50 electives

Semester 3 - Fall
- ACCT*2230 [0.50] Management Accounting
- COOP*1100 [0.00] Introduction to Co-operative Education
- HROB*2100 [1.00] Managing People in Organizations
- MCS*2000 [0.50] Business 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:
- BUS*3320 [0.50] Financial Management
- ECON*2560 [0.50] Theory of Finance
- FARE*3310 [0.50] Operations Management
- HROB*3100 [0.50] Managerial Skills
- MCS*3040 [0.50] Business and Consumer Law
- MCS*3500 [0.50] Market Analysis and Planning
- 0.50 Liberal Education/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:
- BUS*3320 [0.50] Financial Management
- ECON*2560 [0.50] Theory of Finance
- FARE*3310 [0.50] Operations Management
- HROB*3100 [0.50] Managerial Skills
- MCS*3040 [0.50] Business and Consumer Law
- MCS*3500 [0.50] Market Analysis and Planning
- 0.50 Liberal Education/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
### 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:

- AGR*1250 [0.50] Agrifood System Trends & Issues
- 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] Political Ecology & Geography
- HIST*1150 [0.50] The Modern World
- HIST*1250 [0.50] Issues and Society Since 1500
- 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 1879
- 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
- MCS*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

### 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
- 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

### Public Management (PMGT)

**Department of Political Science, College of Social and Applied Human Sciences**

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 emphasizing both political and business/organizational 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*2100 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.leadertshipcertificate.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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1050</td>
<td>Introductory Microeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>Introductory Marketing</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*1400</td>
<td>Issues in Canadian Politics</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*1100</td>
<td>Introductory Macroeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>HROB*2100</td>
<td>Managing People in Organizations</td>
<td>1.00</td>
</tr>
<tr>
<td>MATH*1030</td>
<td>Business Mathematics</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*2300</td>
<td>Canadian Government and Politics</td>
<td>0.50</td>
</tr>
</tbody>
</table>

#### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2220</td>
<td>Financial Accounting</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2310</td>
<td>Intermediate Microeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*3250</td>
<td>Public Policy: Challenges and Prospects</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2200</td>
<td>Industrial Relations</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2650</td>
<td>Introductory Development Economics</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2740</td>
<td>Economic Statistics</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2060</td>
<td>Statistics for Business Decisions</td>
<td>0.50</td>
</tr>
</tbody>
</table>

#### Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*2220</td>
<td>Management Accounting</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*2020</td>
<td>Marketing Information Management</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*2250</td>
<td>Public Administration and Governance</td>
<td>0.50</td>
</tr>
<tr>
<td>MGMT*3020</td>
<td>Corporate Social Responsibility</td>
<td>0.50</td>
</tr>
<tr>
<td>PHIL*2600</td>
<td>Business and Professional Ethics</td>
<td>0.50</td>
</tr>
</tbody>
</table>

#### Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*2220</td>
<td>Management Accounting</td>
<td>0.50</td>
</tr>
<tr>
<td>MCS*2020</td>
<td>Marketing Information Management</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*2250</td>
<td>Public Administration and Governance</td>
<td>0.50</td>
</tr>
</tbody>
</table>

---

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
### Semester 5

- **BUS*3320** [0.50] Financial Management
- **ECON*2560** [0.50] Theory of Finance
- **FARE*3310** [0.50] Operations Management
- **POL*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

- **POL*3210** [0.50] The Constitution and Canadian Federalism
- **POL*3670** [0.50] Comparative Public Policy and Administration
- **POL*3270** [0.50] Local Government in Ontario
- **POL*3440** [0.50] Corruption, Scandal and Political Ethics

0.50 electives

### Semester 7

- **ECON*3610** [0.50] Public Economics
- **POL*4250** [0.50] Topics in Public Management

One of:
- **POL*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:
- **POL*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)

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 program policy with respect to work term performance grading and work term report grading.

### 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

- **ECON*1050** [0.50] Introductory Microeconomics
- **MCS*1000** [0.50] Introductory Marketing
- **MGMT*1000** [1.00] Introduction to Business
- **POL*1400** [0.50] Issues in Canadian Politics

**Semester 2 - Winter**

- **ECON*1100** [0.50] Introductory Macroeconomics

- **MATH*1030** [0.50] Business Mathematics
- **POL*2300** [0.50] Canadian Government and Politics

### Semester 3 - Fall

- **ACCT*2220** [0.50] Financial Accounting
- **COORD*1100** [0.00] Introduction to Co-operative Education
- **ECON*2310** [0.50] Intermediate Microeconomics

One of:
- **ECON*2200** [0.50] Industrial Relations
- **ECON*2650** [0.50] Introductory Development Economics

One of:
- **ECON*2740** [0.50] Economic Statistics
- **STAT*2060** [0.50] Statistics for Business Decisions

### Semester 4 - Winter

- **ACCT*2320** [0.50] Management Accounting
- **MCS*2020** [0.50] Marketing Information Management
- **POL*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

### 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

- **BUS*3320** [0.50] Financial Management
- **ECON*2560** [0.50] Theory of Finance
- **FARE*3310** [0.50] Operations Management
- **POL*3210** [0.50] The Constitution and Canadian Federalism

0.50 electives

### Summer Semester

- **COOP*3000** [0.00] Co-op Work Term III

### Semester 6 - Fall

- **ECON*3610** [0.50] Public Economics
- **POL*3470** [0.50] Business-Government Relations in Canada

One of:
- **MCS*3040** [0.50] Business and Consumer Law
- **HROB*3050** [0.50] Employment Law

1.00 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)

### Semester 7 - Fall

- **MGMT*4000** [1.00] Strategic Management
- **POL*4250** [0.50] Topics in Public Management

One of:
- **POL*4970** [0.50] Honours Political Science Research I

0.50 credits at the 4000 level in Political Science

0.50 electives

### Semester 8 - Winter

- **POL*3670** [0.50] Comparative Public Policy and Administration
- **POL*3270** [0.50] Local Government in Ontario
- **POL*3440** [0.50] Corruption, Scandal and Political Ethics

One of:
- **POL*4980** [0.50] Honours Political Science Research II

0.50 credits at the 4000 level in Political Science

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 to work in graduate 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1050</td>
<td>[0.50]</td>
</tr>
<tr>
<td>REAL*1820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MGMT*1000</td>
<td>[1.00]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*2220</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ECON*1100</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*1030</td>
<td>[0.50]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 3**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2560</td>
<td>[0.50]</td>
</tr>
<tr>
<td>HROB*2100</td>
<td>[1.00]</td>
</tr>
<tr>
<td>REAL*2820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 4**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2740</td>
<td>[0.50]</td>
</tr>
<tr>
<td>STAT*2060</td>
<td>[0.50]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 5**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2410</td>
<td>[0.50]</td>
</tr>
<tr>
<td>REAL*4820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>REAL*4840</td>
<td>[0.50]</td>
</tr>
<tr>
<td>1.00 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 6**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS*3320</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ECON*3660</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ECON*3960</td>
<td>[0.50]</td>
</tr>
<tr>
<td>LARB*5000</td>
<td>[0.50]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 7**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*3500</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MGMT*4000</td>
<td>[1.00]</td>
</tr>
<tr>
<td>REAL*3810</td>
<td>[0.50]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 8**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS*3270</td>
<td>[0.50]</td>
</tr>
<tr>
<td>REAL*3890</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**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 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 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*1050</td>
<td>[0.50]</td>
</tr>
<tr>
<td>REAL*1820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MGMT*1000</td>
<td>[1.00]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 2 - Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*2220</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ECON*1100</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*1030</td>
<td>[0.50]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 3 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2560</td>
<td>[0.50]</td>
</tr>
<tr>
<td>HROB*2100</td>
<td>[1.00]</td>
</tr>
<tr>
<td>REAL*2820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 4 - Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT*2220</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ECON*1100</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MCS*1000</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*1030</td>
<td>[0.50]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 5 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2410</td>
<td>[0.50]</td>
</tr>
<tr>
<td>REAL*4820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>REAL*4840</td>
<td>[0.50]</td>
</tr>
<tr>
<td>1.00 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 6 - Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2410</td>
<td>[0.50]</td>
</tr>
<tr>
<td>REAL*4820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>REAL*4840</td>
<td>[0.50]</td>
</tr>
<tr>
<td>1.00 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 7 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2560</td>
<td>[0.50]</td>
</tr>
<tr>
<td>HROB*2100</td>
<td>[1.00]</td>
</tr>
<tr>
<td>REAL*2820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 8 - Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2410</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>
<tr>
<td>REAL*2820</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>
### 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

### Summer Semester
- COOP*3000 [0.00] Co-op Work Term III

### Semester 6 - Fall
- BUS*3320 [0.50] Financial Management
- REAL*4820 [0.50] Real Estate Appraisal
- REAL*4840 [0.50] Housing and Real Estate Law

### 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*3500 [0.50] Urban Economics
- MGMT*4000 [1.00] Strategic Management
- REAL*3810 [0.50] Real Estate Market Analysis

### Semester 8 - Winter
- LARC*2820 [0.50] Urban and Regional Planning
- POLS*3270 [0.50] Local Government in Ontario
- REAL*4830 [1.00] Real Estate Development Project

### 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*3100 [0.50] Hospitality and Tourism Business Communications
- HTM*3200 [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

### Semester 4
- ACCT*2230 [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

### Semester 5
- BUS*3320 [0.50] Financial Management
- HROB*3100 [0.50] Managerial Skills
- HTM*3080 [0.50] Hospitality and Tourism Marketing
- HTM*3160 [0.50] Destination Management and Marketing

### Semester 6
- FARE*4360 [0.50] Marketing Research
- HTM*2070 [0.50] Meetings and Convention Management
- HTM*3120 [0.50] Operations Analysis in the Hospitality and Tourism Industry
- MCS*3040 [0.50] Business and Consumer Law

### Semester 7
- HTM*4190 [0.50] Hospitality and Tourism Operations Planning
- MGMT*4000 [1.00] Strategic Management

### Semester 8
- EDRED*4010 [0.50] Tourism Planning in the Less Developed World
- HTM*4170 [0.50] International Tourism

### 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
- EDRED*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 Politics 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
- EDRED*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
Courses dealing with the social and economic environment of business:

- ECON*2310: Intermediate Microeconomics
- ECON*2410: Intermediate Macroeconomics
- ECON*3520: Labour Economics
- ECON*3660: Economics of Equity Markets
- ECON*3760: Fundamentals of Derivatives
- ECON*3860: International Finance
- MCS*4050: The Evolution of Capitalism: A Canadian Perspective
- PHIL*1010: Introductory Philosophy: Social and Political Issues
- PHIL*2600: Business and Professional Ethics
- POLS*1400: Issues in Canadian Politics

Courses dealing with marketing and consumer behaviour:

- MCS*2600: Fundamentals of Consumer Behaviour
- MCS*3000: Advanced Marketing
- MCS*3010: Quality Management
- MCS*3620: Marketing Communications
- MCS*4400: Pricing Management
- PSYC*1200: Dynamics of Behaviour

Courses related to Hospitality and Tourism Management:

- HTM*2700: Introductory Foods
- HTM*2740: Cultural Aspects of Food
- HTM*3030: Beverage Management
- HTM*3050: Lodging Management
- HTM*3090: Restaurant Operations Management
- HTM*3180: Casino Operations Management
- HTM*3780: Economics of Food Usage
- HTM*4050: Wine and Oenology
- HTM*4090: Hospitality and Tourism Facilities Management and Design
- HTM*4110: Advanced Restaurant Operations
- HTM*4130: Current Management Topics
- HTM*4250: Hospitality Revenue Management
- HTM*4500: Special Study in Hospitality and Tourism

Courses related to accounting and administration:

- ACCT*2240: Applied Financial Accounting
- ACCT*3230: Intermediate Management Accounting
- ACCT*3280: Auditing I
- ACCT*3340: Intermediate Financial Accounting II
- ACCT*3350: Taxation
- ACCT*4220: Advanced Financial Accounting
- ACCT*4230: Advanced Management Accounting
- FARE*3310: Operations Management
- MCS*2100: Personal Financial Management
- MGMT*4260: International Business

Courses to prepare for The Certified Human Resource Professional (CHRP) designation:

- ECON*2200: Industrial Relations
- HROB*3010: Compensation Systems
- HROB*3030: Occupational Health and Safety
- HROB*3070: Recruitment and Selection
- HROB*3090: Training and Development
- HROB*4060: Human Resources Planning

Other restricted electives:

- CHEM*1100: Chemistry Today
- CIS*1000: Introduction to Computer Applications
- EDRD*3140: Organizational Communication
- ENGL*1200: Reading the Contemporary World
- ENGL*1410: Major Writers
- MGMT*4050: Applied Community Project I
- MGMT*4060: Applied Community Project II
- PHIL*2100: Critical Thinking

Electives and Liberal Education Requirement

The 2.50 electives in the program must include 1.50 credits toward the B.Comm. Liberal Education Requirement.
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 allow 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.

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 honors 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 from courses 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</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1500</td>
<td>[0.50]</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>CIS*1910</td>
<td>[0.50]</td>
<td>Discrete Structures in Computing I</td>
</tr>
<tr>
<td>CIS*2430</td>
<td>[0.50]</td>
<td>Object Oriented Programming</td>
</tr>
<tr>
<td>CIS*2500</td>
<td>[0.50]</td>
<td>Intermediate Programming</td>
</tr>
<tr>
<td>CIS*2520</td>
<td>[0.50]</td>
<td>Data Structures</td>
</tr>
<tr>
<td>CIS*2750</td>
<td>[0.50]</td>
<td>Software Systems Development and Integration</td>
</tr>
<tr>
<td>CIS*2910</td>
<td>[0.50]</td>
<td>Discrete Structures in Computing II</td>
</tr>
<tr>
<td>CIS*3530</td>
<td>[0.50]</td>
<td>Data Base Systems and Concepts</td>
</tr>
</tbody>
</table>

0.50 additional CIS or STAT credits at the 2000 level or higher
1.00 additional CIS credits at 3000 level or higher

d. 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</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1500</td>
<td>[0.50]</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>[0.50]</td>
<td>Calculus I</td>
</tr>
</tbody>
</table>

1.50 credits in the Area of Application or electives

Semester 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1910</td>
<td>[0.50]</td>
<td>Discrete Structures in Computing I</td>
</tr>
<tr>
<td>CIS*2500</td>
<td>[0.50]</td>
<td>Intermediate Programming</td>
</tr>
</tbody>
</table>

1.50 credits in the Area of Application or electives

Semester 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*2030</td>
<td>[0.50]</td>
<td>Structure and Application of Microcomputers</td>
</tr>
<tr>
<td>CIS*2430</td>
<td>[0.50]</td>
<td>Object Oriented Programming</td>
</tr>
<tr>
<td>CIS*2520</td>
<td>[0.50]</td>
<td>Data Structures</td>
</tr>
<tr>
<td>CIS*2910</td>
<td>[0.50]</td>
<td>Discrete Structures in Computing II</td>
</tr>
</tbody>
</table>

0.50 credits in the Area of Application or electives

Semester 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*2750</td>
<td>[0.75]</td>
<td>Software Systems Development and Integration</td>
</tr>
<tr>
<td>CIS*3110</td>
<td>[0.50]</td>
<td>Operating Systems</td>
</tr>
<tr>
<td>CIS*3490</td>
<td>[0.50]</td>
<td>The Analysis and Design of Computer Algorithms</td>
</tr>
</tbody>
</table>

0.75 credits in the Area of Application or elective

Semester 5

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*3150</td>
<td>[0.50]</td>
<td>Theory of Computation</td>
</tr>
<tr>
<td>CIS*3750</td>
<td>[0.75]</td>
<td>System Analysis and Design in Applications</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*2460</td>
<td>[0.50]</td>
<td>Modelling of Computer Systems</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>[0.50]</td>
<td>Statistics I</td>
</tr>
</tbody>
</table>

0.75 credits in the Area of Application or electives

Semester 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*3760</td>
<td>[0.75]</td>
<td>Software Engineering</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

Semester 7

1.00 credits in the Area of Application or electives

0.50 credits in CIS at 3000 level or above

1.00 credits in CIS at the 4000 level

Semester 8

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*4000</td>
<td>[0.50]</td>
<td>Applications of Computing Seminar</td>
</tr>
</tbody>
</table>

1.00 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

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-op educational 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>
<td>Academic</td>
<td>Work Term 4</td>
<td>Work Term 5</td>
</tr>
<tr>
<td>5</td>
<td>Academic</td>
<td>Academic</td>
<td>N/A</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 prequisites 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 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1500</td>
<td>0.50</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>0.50</td>
<td>Calculus I</td>
</tr>
<tr>
<td>1.50 credits in the Area of Application or electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 2 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1910</td>
<td>0.50</td>
<td>Discrete Structures in Computing I</td>
</tr>
<tr>
<td>CIS*2500</td>
<td>0.50</td>
<td>Intermediate Programming</td>
</tr>
<tr>
<td>1.50 credits in the Area of Application or electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Summer Semester - Off

#### Semester 3 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*2030</td>
<td>0.50</td>
<td>Structure and Application of Microcomputers</td>
</tr>
<tr>
<td>CIS*2430</td>
<td>0.50</td>
<td>Object Oriented Programming</td>
</tr>
<tr>
<td>CIS*2520</td>
<td>0.50</td>
<td>Data Structures</td>
</tr>
<tr>
<td>CIS*2910</td>
<td>0.50</td>
<td>Discrete Structures in Computing II</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>0.00</td>
<td>Introduction to Co-operative Education</td>
</tr>
<tr>
<td>0.50 credits in the Area of Application or electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 4 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*2750</td>
<td>0.75</td>
<td>Software Systems Development and Integration</td>
</tr>
<tr>
<td>CIS*3110</td>
<td>0.50</td>
<td>Operating Systems</td>
</tr>
<tr>
<td>0.50 credits in the Area of Application or electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Summer Semester

COOP*1000 Work Term 1

### Fall Semester

COOP*2000 Work Term 2

#### Semester 5 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*3760</td>
<td>0.75</td>
<td>Software Engineering</td>
</tr>
<tr>
<td>0.50 C.I.S electives at the 3000 level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.25 credits in the Area of Application or electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Summer Semester

COOP*3000 Work Term 3

#### Semester 6 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*3150</td>
<td>0.50</td>
<td>Theory of Computation</td>
</tr>
<tr>
<td>CIS*3750</td>
<td>0.75</td>
<td>System Analysis and Design in Applications</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS*2460</td>
<td>0.50</td>
<td>Modelling of Computer Systems</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
<tr>
<td>0.75 credits in the Area of Application or electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Winter Semester

COOP*4000 Work Term 4

#### Summer Semester

COOP*5000 Work Term 5

#### Semester 7 - Fall

<table>
<thead>
<tr>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00 credits in the Area of Application or electives</td>
<td></td>
</tr>
<tr>
<td>0.50 credits in CIS at 3000 level or above</td>
<td></td>
</tr>
<tr>
<td>1.00 credits in CIS at the 4000 level</td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 8 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*4000</td>
<td>0.50</td>
<td>Applications of Computing Seminar</td>
</tr>
<tr>
<td>1.00 credits in the Area of Application or electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.50 credits in CIS at 3000 level or above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.50 credits in CIS at the 4000 level</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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>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>
<td>Academic</td>
<td>Work Term 4</td>
<td>Work Term 5</td>
</tr>
<tr>
<td>5</td>
<td>Academic</td>
<td>Academic</td>
<td>N/A</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**
- CIS*1250 [0.50] Software Design I
- CIS*1500 [0.50] Introduction to Programming
1.50 credits in the Area of Application or electives

**Semester 2 - Winter**
- CIS*1910 [0.50] Discrete Structures in Computing I
- CIS*2250 [0.50] Software Design II
- CIS*2500 [0.50] Intermediate Programming
1.00 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*3250 [0.50] Software Design III
- 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
0.75 credits in the Area of Application or elective
0.50 C.IS electives at the 3000 level or above

**Summer Semester**
- COOP*1000 Work Term 1

**Fall Semester**
- COOP*2000 Work Term 2

**Semester 5 - Winter**
- CIS*3760 [0.75] Software Engineering
0.50 C.IS 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**
- 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

**Winter Semester**
- COOP*4000 Work Term 4

**Summer Semester**
- COOP*5000 Work Term 5

**Semester 7 - Fall**
- 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 - 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
**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 complemented in 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 Engineering; 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. 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. The Co-op advisor's approval will signify that the schedule of work semesters in the Co-op program as planned by the student is compatible with the schedule of studies in the program in which the student is enrolled.
5. completion of COOP*1100 is a requirement for entry into the first work term.

Please refer to Co-operative Education Program for Admission requirements into the Co-op Program.

**B. Eng. Co-op Work Term Schedule**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Yr. 1</th>
<th>Yr. 2</th>
<th>Yr. 3</th>
<th>Yr. 4</th>
<th>Yr. 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td>work</td>
</tr>
<tr>
<td>Winter</td>
<td>2</td>
<td>4</td>
<td>work</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Summer</td>
<td>work</td>
<td>work</td>
<td>work</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All candidates must complete a minimum of 4 of the preceding 5 work terms with at least one work-term in each of a Fall, Winter and Summer semester.

**Undeclared First Year Entry - B.Eng. Program Regular and Co-op**

School of Engineering, College of Physical and Engineering Science
Semester 1

<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>
<td>0.50</td>
<td>Calculus I</td>
</tr>
</tbody>
</table>

One of:

- ENGG*1210  | 0.50   | Engineering Mechanics I                          |
- HIST*1250  | 0.50   | Science and Society Since 1500                   |

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 Systems and Computing, Computer Engineering, Engineering Analysis, Introduction to Programming, Calculus II, Calculus I, Physics with Applications)

Semester 2 Regular or Co-op (Mechanical Engineering)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</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 Society Since 1500</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 public and private sectors of the health care 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 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>
<td>0.50</td>
<td>Calculus I</td>
</tr>
</tbody>
</table>

One of:

- ENGG*1210  | 0.50   | Engineering Mechanics I                          |
- HIST*1250  | 0.50   | Science and Society Since 1500                   |

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>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</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 Society Since 1500                   |

Semester 3 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
<td>Biological Concepts of Health</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>
</tr>
<tr>
<td>MATH*2270</td>
<td>0.50</td>
<td>Applied Differential Equations</td>
</tr>
</tbody>
</table>

One of:

- ENGG*2100  | 0.75   | Engineering and Design II                        |
- STAT*2120  | 0.50   | Probability and Statistics for Engineers         |

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 Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
<tr>
<td>BIOM*2000</td>
<td>0.50</td>
<td>Concepts in Human Physiology</td>
</tr>
<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>
</tr>
</tbody>
</table>

One of:

- ENGG*2100  | 0.75   | Engineering and Design II                        |
- STAT*2120  | 0.50   | Probability and Statistics for Engineers         |

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 0.50 restricted elective.

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>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>
</tr>
<tr>
<td>ENGG*3240</td>
<td>0.50</td>
<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>
</tr>
</tbody>
</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>
</tr>
</thead>
<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>
</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 Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*4390</td>
<td>0.75</td>
<td>Bio-instrumentation Design</td>
</tr>
</tbody>
</table>

2.50 restricted electives

Semester 8 (Winter) - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*3430</td>
<td>0.50</td>
<td>Heat and Mass Transfer</td>
</tr>
<tr>
<td>ENGG*4180</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 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>
<td>0.50</td>
<td>Calculus I</td>
</tr>
</tbody>
</table>

One of:

- ENGG*1210  | 0.50   | Engineering Mechanics I                          |
- HIST*1250  | 0.50   | Science and Society Since 1500                   |

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
CHEM*1050 [0.50] General Chemistry II
ENGG*1500 [0.50] Engineering Analysis
MATH*1210 [0.50] Calculus II
PHYS*1130 [0.50] Physics with Applications
One of:
   ENGG*1210 [0.50] Engineering Mechanics I
   HIST*1250 [0.50] Science and Society Since 1500

Semester 3 - Regular or Co-op
Biol*1090 [0.50] Introduction to Molecular and Cellular Biology
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
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
BIOC*2580 [0.50] Introduction to Biochemistry
ENGG*2230 [0.50] Fluid Mechanics
ENGG*2450 [0.50] Electric Circuits
ENGG*2660 [0.50] Biological Engineering Systems I
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

Semester 5 - Regular or Co-op
Biol*1080 [0.50] Biological Concepts of Health
ENGG*3160 [0.50] Biological Engineering Systems II
ENGG*3170 [0.50] Biomaterials
ENGG*3240 [0.50] Engineering Economics
ENGG*3260 [0.50] Thermodynamics
ENGG*3450 [0.50] Electrical Devices

Semester 6 Regular / Semester 7 Co-op
ENGG*3100 [0.75] Engineering and Design III
ENGG*3410 [0.50] Systems and Control Theory
ENGG*3430 [0.50] Heat and Mass Transfer
1.00 restricted electives

Semester 7 Regular / Semester 6 Co-op
ENGG*4390 [0.75] Bio-instrumentation Design
2.75 restricted electives

Semester 8 (Winter) - Regular or Co-op
ENGG*4110 [1.00] Biological Engineering Design IV
ENGG*4260 [0.75] Digital Process Control Design
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/ENG: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
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 Society Since 1500
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
CIS*2500 [0.50] Intermediate Programming
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 Society Since 1500

Semester 3 - Regular or Co-op
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
ENGG*2400 [0.50] Engineering Systems Analysis
ENGG*2410 [0.50] Digital Systems Design Using Descriptive Languages
MATH*2270 [0.50] Applied Differential Equations

Semester 4 - Regular or Co-op
ENGG*2100 [0.75] Engineering and Design II
ENGG*2450 [0.50] Electric Circuits
ENGG*3380 [0.50] Computer Organization and Design
MATH*2130 [0.50] Numerical Methods
STAT*2120 [0.50] Probability and Statistics for Engineers
0.50 restricted electives (CIS*2750 for the software engineering stream)

Semester 5 - Regular or Co-op
ENGG*2120 [0.50] Material Science
ENGG*3240 [0.50] Engineering Economics
ENGG*3450 [0.50] Electrical Devices
ENGG*3640 [0.50] Microcomputer Interfacing
1.00 restricted electives

Semester 6 - Regular / Semester 7 - Co-op
CIS*3110 [0.50] Operating Systems
CIS*3490 [0.50] The Analysis and Design of Computer Algorithms
ENGG*3100 [0.75] Engineering and Design III
ENGG*3210 [0.50] Communication Systems
ENGG*3410 [0.50] Systems and Control Theory
0.50 restricted electives

Semester 7 - Regular / Semester 6 - Co-op
ENGG*4080 [0.50] Micro and Nano-Scale Electronics
ENGG*4420 [0.75] Real-time Systems Design
ENGG*4450 [0.50] Large-Scale Software Architecture Engineering
1.00 restricted electives

Semester 8 - Regular or Co-op
ENGG*4170 [1.00] Computer Engineering Design IV
ENGG*4540 [0.50] Advanced Computer Architecture
ENGG*4550 [0.50] VLSI Digital Design
1.00 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)
- 2.00 credits in Computer engineering electives.

Engineering Systems and Computing Program Regular and Co-op (ESC/ESC:C)

School of Engineering, College of Physical and Engineering Science

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.
The degradation of the environment is a concern shared by citizens, government agencies, non-governmental organizations, and businesses. The Environmental Engineering program offered by the School of Engineering provides graduates with design and engineering skills to minimize and prevent the impact of human activities on water, soil, and air systems. Both simple and innovative solutions are part of the toolbox. Graduates will also develop the humanistic and social perspectives in their solutions.

### Major (Honours Program)

#### Semester 1 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1040</td>
<td>General Chemistry I</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CTS*1500</td>
<td>Introduction to Programming</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*1100</td>
<td>Engineering and Design I</td>
<td>[0.75]</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>Calculus I</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

One of:

- ENGG*1210 (0.50) Engineering Mechanics I
- HIST*1250 (0.50) Science and Society Since 1500

**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>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS*2500</td>
<td>Intermediate Programming</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*1500</td>
<td>Engineering Analysis</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>Calculus II</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*1010</td>
<td>Introductory Electricity and Magnetism</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>Physics with Applications</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

One of:

- ENGG*1210 (0.50) Engineering Mechanics I
- HIST*1250 (0.50) Science and Society Since 1500

#### Semester 3 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS*2430</td>
<td>Object Oriented Programming</td>
<td>[0.50]</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>Introduction to Co-operative Education</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*2120</td>
<td>Material Science</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*2400</td>
<td>Engineering Systems Analysis</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*2410</td>
<td>Digital Systems Design Using Descriptive Languages</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*2270</td>
<td>Applied Differential Equations</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS*3110</td>
<td>Operating Systems</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*2230</td>
<td>Fluid Mechanics</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*2450</td>
<td>Electric Circuits</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*2130</td>
<td>Numerical Methods</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

0.50 restricted electives

One of:

- ENGG*2100 (0.75) Engineering and Design II
- STAT*2120 (0.50) Probability and Statistics for Engineers

#### Semester 5 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTS*2520</td>
<td>Data Structures</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*3260</td>
<td>Thermodynamics</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*3390</td>
<td>Signal Processing</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*3450</td>
<td>Electrical Devices</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*3640</td>
<td>Microcomputer Interfacing</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

0.50 restricted electives

#### Semester 6 - Regular / Semester 7 - Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*3100</td>
<td>Engineering and Design III</td>
<td>[0.75]</td>
</tr>
<tr>
<td>ENGG*3410</td>
<td>Systems and Control Theory</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*3430</td>
<td>Heat and Mass Transfer</td>
<td>[0.50]</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>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*3240</td>
<td>Engineering Economics</td>
<td>[0.50]</td>
</tr>
<tr>
<td>ENGG*4420</td>
<td>Real-time Systems Design</td>
<td>[0.75]</td>
</tr>
<tr>
<td>ENGG*4450</td>
<td>Large-Scale Software Architecture Engineering</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

1.00 or 1.25 restricted electives

#### Semester 8 - Regular or Co-op

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*4120</td>
<td>Systems Engineering and Computing Design</td>
<td>[1.00]</td>
</tr>
<tr>
<td>ENGG*4280</td>
<td>Digital Process Control Design</td>
<td>[0.75]</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.

- 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 ES&C Engineering electives
- 0.75 credits in ES&C Engineering Design electives

### Environmental Engineering Program Regular and Co-op (ENVE/ENVE:C)

**School of Engineering, College of Physical and Engineering Science**

The School of Engineering provides graduates with design and engineering skills to minimize and prevent the impact of human activities on water, soil, and air systems.
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:

- BIOM*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
- GEOL*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*4130 [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 (FENG)

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
- BIOM*2580 [0.50] Introduction to Biochemistry
- ENGG*2660 [0.50] Biological Engineering Systems I
- ENGG*3830 [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
- MICS*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 1.0 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
- ENGG*1210 [0.50] Engineering Mechanics I
- HIST*1250 [0.50] Science and Society Since 1500

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

Semester 3 - Regular or Co-op

- 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

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

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

Semester 6 - Regular / Semester 7 - Co-op

- ENGG*1210 [0.50] Engineering Mechanics II
- STAT*2120 [0.50] Probability and Statistics for Engineers

Semester 7 - Regular / Semester 6 - Co-op

- ENGG*3260 [0.75] Thermodynamics
- ENGG*3280 [0.75] Machine Design
- ENGG*3450 [0.50] Electrical Devices
- ENGG*3510 [0.50] Electromechanical Devices

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 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

NOTE: Courses taken for the minors are credited to appropriate elective areas.

2011-2012 Undergraduate Calendar

Last Revision: March 15, 2014
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>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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>ENGG*1100</td>
<td>Engineering and Design I</td>
<td>0.75</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>Calculus I</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- ENGG*1210 | Engineering Mechanics I     | 0.50    |
- HIST*1250  | Science and Society Since 1500 | 0.50 |

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>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>General Chemistry II</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*1500</td>
<td>Engineering Analysis</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>Calculus II</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>Physics with Applications</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- ENGG*1210 | Engineering Mechanics I     | 0.50    |
- HIST*1250  | Science and Society Since 1500 | 0.50 |

**Semester 3 - Regular or Co-op**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*1100</td>
<td>Introduction to Co-operative Education</td>
<td>0.00</td>
</tr>
<tr>
<td>ENGG*2120</td>
<td>Material Science</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*2400</td>
<td>Engineering Systems Analysis</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*2000</td>
<td>Geomorphology</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*2270</td>
<td>Applied Differential Equations</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- BIOL*1090 | Introduction to Molecular and Cellular Biology | 0.50 |
- MICR*2420 | Introduction to Microbiology | 0.50 |

One of:

- ENGG*2100 | Engineering and Design II    | 0.75    |
- STAT*2120  | Probability and Statistics for Engineers | 0.50 |

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>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*2230</td>
<td>Fluid Mechanics</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*2450</td>
<td>Electric Circuits</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*2550</td>
<td>Water Management</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*2560</td>
<td>Environmental Engineering Systems</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*2130</td>
<td>Numerical Methods</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- ENGG*2100 | Engineering and Design II    | 0.75    |
- STAT*2120  | Probability and Statistics for Engineers | 0.50 |

**Semester 5 - Regular or Co-op**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*3240</td>
<td>Engineering Economics</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*3260</td>
<td>Thermodynamics</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*3590</td>
<td>Water Quality</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*3650</td>
<td>Hydrology</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*3670</td>
<td>Soil Mechanics</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 restricted electives

**Semester 6 - Regular / Semester 7 - Co-op**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*3100</td>
<td>Engineering and Design III</td>
<td>0.75</td>
</tr>
<tr>
<td>ENGG*3430</td>
<td>Heat and Mass Transfer</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOL*3060</td>
<td>Groundwater</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.50 restricted electives

**Semester 7 - Regular / Semester 6 - Co-op**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*3340</td>
<td>Geographic Information Systems in Environmental Engineering</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*4360</td>
<td>Soil-Water Conservation Systems Design</td>
<td>0.75</td>
</tr>
<tr>
<td>ENGG*4370</td>
<td>Urban Water Systems Design</td>
<td>0.75</td>
</tr>
</tbody>
</table>

1.00 restricted electives

**Semester 8 (Winter) Regular or Co-op**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*4150</td>
<td>Water Resources Engineering Design IV</td>
<td>1.00</td>
</tr>
<tr>
<td>ENGG*4250</td>
<td>Watershed Systems Design</td>
<td>0.75</td>
</tr>
</tbody>
</table>

1.00 restricted electives

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

2011-2012 Undergraduate Calendar

Last Revision: March 15, 2014
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.

Graduates 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 elect 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

BIOI*1500 [0.50] Humans in the Natural World
ENGL*1200 [0.50] Reading the Contemporary World
LARC*1100 [0.75] Design and Communications Studio
LARC*1950 [0.50] History of Cultural Form I
One of:
ANTH*1150 [0.50] Introduction to Anthropology
PHIL*1010 [0.50] Introductory Philosophy: Social and Political Issues
PSYC*1100 [0.50] Principles of Behaviour
SOC*1100 [0.50] Sociology

Semester 2

LARC*2020 [0.75] Design Studio
LARC*2220 [0.50] Planting Design
LARC*2420 [0.50] Materials and Techniques
PHIL*2070 [0.50] Philosophy of the Environment
0.50 electives

Semester 3

LARC*2100 [0.50] Landscape Analysis
LARC*2240 [0.50] Plants in the Landscape
LARC*2410 [0.50] Site Engineering
LARC*3040 [0.75] Site Planning and Design Studio
0.50 electives

Semester 4

LARC*2820 [0.50] Urban and Regional Planning
LARC*3050 [0.75] Landscape Architecture I
LARC*3430 [0.50] Landscape Construction I
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

LARC*3060 [0.75] Landscape Architecture II
LARC*3440 [0.75] Landscape Construction II
LARC*4610 [0.50] Professional Practice
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

LARC*3070 [1.00] Landscape Architecture III
LARC*3320 [0.50] Principles of Landscape Ecology
LARC*4510 [0.50] Honours Thesis
0.50 electives

Semester 8

LARC*4090 [0.50] Seminar
LARC*4710 [1.00] Integrative Design Studio
0.50 electives
0.50 electives

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
Bachelor of Science (B.Sc.)
The University of Guelph offers general andhonours 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 honors 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. Basic 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/Approved electives.shtml.

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 at 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 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 sciences 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.
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>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1070</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1070</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1000</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*1200</td>
<td>0.50</td>
</tr>
<tr>
<td>CIS*1500</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*2080</td>
<td>0.50</td>
</tr>
</tbody>
</table>

* 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>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1000</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1070</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
</tr>
</tbody>
</table>

* 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 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1010</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1070</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Honours Programs (BSCH)**

**Honours Program Majors**

The following honours majors are available:

**Biological Sciences:**
20.00 credits - Animal Biology (ABIO)
20.00 credits - Biomedical Sciences (BIOM)
20.00 credits - Biophysics (BIOP)
20.00 credits - Chemical Physics (CHPY)
20.00 credits - Chemistry (CHEM)
20.00 credits - Nanoscience (NANO)
20.00 credits - Physical Science (PSCI)
20.25 credits - Physics (PHYS)

**Environmental Sciences:**
20.00 credits - Ecology (ECOL)*
20.00 credits - Environmental Biology (ENVB)*
20.00 credits - Toxicology (TOX)

*also see B.SC.(ENV.)

**Computing Science, Mathematics, Statistics**
20.00 credits - Mathematics (MATH)
20.00 credits - Statistics (STAT)

**Additional Disciplines:**
20.00 credits - Food Science (FOOD)
20.00 credits - Psychology: Brain & Cognition (PBC)

**Co-operative Educational Programs:**
20.00 credits - Applied Mathematics and Statistics (Co-op) (APMS:C)
20.25 credits - Biochemistry (Co-op) (BIOC:C)
21.25 credits - Biophysics (Co-op) (BIOP:C)
21.25 credits - Chemical Physics (Co-op) (CHPY:C)
20.25 credits - Chemistry (Co-op) (CHEM:C)
20.00 credits - Food Science (Co-op) (FOOD:C)
20.00 credits - Microbiology (Co-op) (MICR:C)
21.25 credits - Physics (Co-op) (PHYS:C)
20.00 credits - Toxicology (Co-op) (TOX:C)

**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 - Biology (BIOL)
5.00 credits - Biochemistry (BIOC)
5.00 credits - Biotechnology (BIOT)
5.00 credits - Functional Foods and Nutraceuticals (FFAN)
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 - Forest Systems (FSYS)
5.00 credits - Geographic Information Systems (GIS) and Environmental Analysis
5.00 credits - Geology (GEOL)

**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 - Forest Science (FOOD)
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*1080 [0.50] Biological Concepts of Health
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*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*1000 [0.50] Introduction to Computer Applications
- CIS*1200 [0.50] Introduction to Computing
- CIS*1500 [0.50] Introduction to Programming

0.50 Arts or Social Science electives

Semester 3

AGR*2350 [0.50] Animal Production Systems, Health and Industry
BIOC*2580 [0.50] Introduction to Biochemistry
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics

0.50 Arts or Social Science electives

Semester 4

ANSC*2340 [0.50] Structure of Farm Animals
MCB*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*3210 [0.50] Principles of Animal Care and Welfare
ANSC*4650 [0.50] Comparative Immunology
MBG*3060 [0.50] Quantitative Genetics

1.00 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*3210 is an Arts and Social Science 0.50 credit. 1.50 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*3090 [0.50] Applied Animal Genetics
MBG*4030 [0.50] Animal Breeding Methods

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
EQU*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
- BIOC*3560 [0.50] Structure and Function in Biochemistry
- EQU*3050 [0.50] Equine Exercise Physiology
- MICR*3230 [0.50] Immunology
- PATH*3610 [0.50] Principles of Disease
- POPM*3240 [0.50] Epidemiology
- POPM*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
MATH*1200 [0.50] Calculus I
PHYS*1000 [0.50] An Introduction to Mechanics

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 - Winter

CHEM*1050 [0.50] General Chemistry II
CIS*2500 [0.50] Intermediate Programming
COOP*1100 [0.00] Introduction to Co-operative Education
MATH*1210 [0.50] Calculus 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
X. Degree Programs, Bachelor of Science (B.Sc.)

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 for professional programs, as well as employment in industry and government. Graduates are also positioned to be successful in obtaining entrance to a wide variety of related fields. Graduates are also positioned to be successful in obtaining entrance to a wide variety of related fields.

Biochemistry (BIOC)

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 1

BIOI*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

BIOI*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

BIOC*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

Statistical Modeling and Data Analysis

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

Summer Semester

Coop*3000 [0.00] Co-op Work Term III

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

Fall Semester

Coop*2000 [0.00] Co-op Work Term II

Semester 6 - Spring

STAT*3100 [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

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*2700 [0.50] Organic Chemistry II
MCB*2050 [0.50] Molecular Biology of the Cell
MICR*2420 [0.50] Introduction to Microbiology

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

Last Revision: March 15, 2014
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 post-graduate 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

**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

**Winter Semester**
- NO academic semester or work term

**Semester 3 - Fall**
- BIOL*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

**Semester 4 - Summer**
- BIOL*3570 [0.75] Analytical Biochemistry
- CHEM*2700 [0.50] Organic Chemistry I
- MICR*2420 [0.50] Introduction to Microbiology
- STAT*2040 [0.50] Statistics I

**Semester 5 - Fall**
- BIOL*3560 [0.50] Structure and Function in Biochemistry
- CHEM*3750 [0.50] Organic Chemistry II
- MCB*2050 [0.50] Molecular Biology of the Cell
- MICR*2430 [0.50] Microbiology Methods I

**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**
- BIOL*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 at least part of their program: 3.5 credits from the following list, with at least 1.00 of these credits from BIOL*4520, BIOL*4580, MCB*4050

- BIOL*4520 [0.50] Metabolic Processes
- BIOL*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

**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

**Winter Semester**
- NO academic semester or work term

**Semester 3 - Fall**
- BIOL*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

**Semester 4 - Summer**
- BIOL*3570 [0.75] Analytical Biochemistry
- CHEM*2700 [0.50] Organic Chemistry I
- MICR*2420 [0.50] Introduction to Microbiology
- STAT*2040 [0.50] Statistics I

**Semester 5 - Fall**
- BIOL*3560 [0.50] Structure and Function in Biochemistry
- CHEM*3750 [0.50] Organic Chemistry II
- MCB*2050 [0.50] Molecular Biology of the Cell
- MICR*2430 [0.50] Microbiology Methods I

**Winter Semester**
- COOP*2000 [0.00] Co-op Work Term I

**Semester 6 - Summer**
- BIOL*3570 [0.75] Analytical Biochemistry
- CHEM*2700 [0.50] Organic Chemistry I
- MICR*2420 [0.50] Introduction to Microbiology
- STAT*2040 [0.50] Statistics I

**Semester 7 - Fall**
- 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
- PHYS*2030 [0.50] Biophysics of Excitable Cells

**Summer Semester**
- COOP*3000 [0.00] Co-op Work Term III

**Semester 8 - Winter**
- CHEM*3750 [0.50] Organic Chemistry II
- 2.00 electives or restricted electives

**Semester 7 - Winter**
- BIOL*4540 [0.75] Enzymology
- MBG*3350 [0.75] Laboratory Methods in Molecular Biology I
- 1.00 electives or restricted electives

---

http://www.bsc.uoguelph.ca/revisedss
### Summer Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*4000</td>
<td>0.00</td>
<td>Co-op Work Term IV</td>
</tr>
</tbody>
</table>

### Semester 8 - Fall

2.50 electives or restricted electives

### Restricted Electives

Students must take at least 3.5 credits from the following list, with at least 1.00 of these credits from BIOC*4520, BIOC*4580, MCB*4050.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*4520</td>
<td>0.50</td>
<td>Metabolic Processes</td>
</tr>
<tr>
<td>BIOC*4580</td>
<td>0.50</td>
<td>Membrane Biochemistry</td>
</tr>
<tr>
<td>BIOM*3200</td>
<td>1.00</td>
<td>Mammalian Physiology</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>MCB*4500</td>
<td>1.00</td>
<td>Research Project in Molecular &amp; Cellular Biology 1</td>
</tr>
<tr>
<td>MCB*4510</td>
<td>1.00</td>
<td>Research Project in Molecular &amp; Cellular Biology 2</td>
</tr>
<tr>
<td>MICR*3230</td>
<td>0.50</td>
<td>Immunology</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>
<tr>
<td>MICR*4530</td>
<td>0.50</td>
<td>Immunology II</td>
</tr>
<tr>
<td>PBIO*3110</td>
<td>0.50</td>
<td>Crop Physiology</td>
</tr>
<tr>
<td>PBIO*4750</td>
<td>0.50</td>
<td>Genetic Engineering of Plants</td>
</tr>
<tr>
<td>TOX*4590</td>
<td>0.50</td>
<td>Biochemical Toxicology</td>
</tr>
</tbody>
</table>

### 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>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</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*1200</td>
<td>0.50</td>
<td>Calculus I</td>
</tr>
<tr>
<td>PHYS*1000</td>
<td>0.50</td>
<td>An Introduction to Mechanics</td>
</tr>
<tr>
<td>ON 0.50 Arts or Social Science electives</td>
<td></td>
<td></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

#### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</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>ON 0.50 Arts or Social Science electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<td>ON 0.50 Arts or Social Science electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*2580</td>
<td>0.50</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>CHEM*2600</td>
<td>0.50</td>
<td>Structure and Bonding</td>
</tr>
<tr>
<td>CHEM*2400</td>
<td>0.75</td>
<td>Analytical Chemistry I</td>
</tr>
<tr>
<td>CHEM*2880</td>
<td>0.50</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>ON 0.25 electives or restricted electives *</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*2070</td>
<td>0.50</td>
<td>Structure and Spectroscopy</td>
</tr>
<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>
</tr>
<tr>
<td>MICR*2420</td>
<td>0.50</td>
<td>Introduction to Microbiology</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
<tr>
<td>ON 0.75 Arts or Social Science electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</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>ON 0.50 Arts or Social Science electives</td>
<td></td>
<td></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>Course Name</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*1200</td>
<td>0.50</td>
<td>Calculus I</td>
</tr>
<tr>
<td>PHYS*1000</td>
<td>0.50</td>
<td>An Introduction to Mechanics</td>
</tr>
<tr>
<td>ON 0.50 Arts or Social Science electives</td>
<td></td>
<td></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

### Note:

- **CHEM*3650** and **CHEM*3640** are prerequisites for **CHEM*3650**.
- **CHEM*3760** is a prerequisite for **CHEM*3750**.
- **CHEM*3640** is a prerequisite for **CHEM*3650**.
- **CHEM*3640** is a prerequisite for **CHEM*3650**.
- **CHEM*3640** is a prerequisite for **CHEM*3650**.
- **CHEM*3640** is a prerequisite for **CHEM*3650**.
- **CHEM*3640** is a prerequisite for **CHEM*3650**.
Semester 2 - Winter
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
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 - Fall
BIOC*2580 [0.50] Introduction to Biochemistry
CHEM*2060 [0.50] Structure and Bonding
CHEM*2400 [0.75] Analytical Chemistry I
CHEM*2880 [0.50] Physical Chemistry
0.25 electives or restricted electives *

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
STAT*2040 [0.50] Statistics I
0.50 electives or restricted electives *

Semester 5 - Fall
BIOC*3570 [0.75] Analytical Biochemistry
CHEM*3750 [0.50] Organic Chemistry II
One of:
   CHEM*3640 [0.50] Chemistry of the Elements I **
   CHEM*3650 [0.50] Chemistry of the Elements II **
   CHEM*3760 [0.50] Organic Chemistry III
   CHEM*4010 [0.50] Chemistry and Industry
   CHEM*4400 [0.50] Advanced Topics in Analytical Chemistry
   CHEM*4630 [0.50] Bioinorganic Chemistry **
   CHEM*4720 [0.50] Organic Reactivity **
   CHEM*4730 [0.50] Synthetic Organic Chemistry **
   CHEM*4740 [0.50] Topics in Bio-Organic Chemistry
   CHEM*4900 [1.00] Chemistry Research Project I **
   CHEM*4910 [1.00] Chemistry Research Project II **
   MCB*4050 [0.50] Protein and Nucleic Acid Structure **
   MICR*3230 [0.50] Immunology
   NUTR*3210 [0.50] Fundamentals of Nutrition
   PATH*3610 [0.50] Principles of Disease
   TOX*4590 [0.50] Biochemical Toxicology **

Semester 6 - Winter
Select either Option A or Option B

Option A (at Guelph)
BIOC*3560 [0.50] Structure and Function in Biochemistry
CHEM*3560 [0.50] Chemistry of the Elements II
CHEM*3760 [0.50] Organic Chemistry III
1.00 electives or restricted electives *

Option B (at Seneca)
2.50 credits from:
   XSEN*3020 [0.50] Physical Chemistry
   XSEN*3040 [0.50] Laboratory Methods in Molecular Biology I **
   XSEN*3060 [0.50] Elements of Calculus I
   XSEN*3070 [0.50] Probability and Statistics
   XSEN*3080 [0.50] Biochemistry
   XSEN*3090 [0.50] Biopharmaceuticals
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/bphc/)

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
2.50 electives or restricted electives *

Summer Semester
COOP*4000 [0.00] Co-op Work Term IV

Semester 8 - Fall
One of:
   CHEM*4730 [0.50] Synthetic Organic Chemistry
   CHEM*4740 [0.50] Topics in Bio-Organic Chemistry
2.00 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. 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
   TOX*2000 [0.50] Principles of Toxicology
3. A minimum of 1.50 credits at the 4000 level and 2.50 credits at the 3000/4000 level from the following list:

BIOC*3560 [0.50] Structure and Function in Biochemistry
BIOC*4520 [0.50] Metabolic Processes
BIOC*4540 [0.75] Enzymology **
BIOC*4580 [0.50] Membrane Biochemistry
BIOM*3090 [0.50] Principles of Pharmacology **
BIOM*3200 [1.00] Mammalian Physiology
BIOM*4090 [0.50] Pharmacology **
CHEM*3360 [0.50] Environmental Chemistry and Toxicology
CHEM*3440 [0.50] Analytical Chemistry III: Analytical Instrumentation
CHEM*3640 [0.50] Chemistry of the Elements I
CHEM*3650 [0.50] Chemistry of the Elements II **
CHEM*3760 [0.50] Organic Chemistry III
CHEM*4010 [0.50] Chemistry and Industry
CHEM*4400 [0.50] Advanced Topics in Analytical Chemistry
CHEM*4630 [0.50] Bioinorganic Chemistry **
CHEM*4720 [0.50] Organic Reactivity **
CHEM*4730 [0.50] Synthetic Organic Chemistry **
CHEM*4740 [0.50] Topics in Bio-Organic Chemistry
CHEM*4900 [1.00] Chemistry Research Project I **
CHEM*4910 [1.00] Chemistry Research Project II **
MBG*3350 [0.75] Laboratory Methods in Molecular Biology I **
MBG*4080 [0.50] Molecular Genetics **
MCB*4050 [0.50] Protein and Nucleic Acid Structure **
MICR*3230 [0.50] Immunology
NUTR*3210 [0.50] Fundamentals of Nutrition
PATH*3610 [0.50] Principles of Disease
TOX*4590 [0.50] Biochemical Toxicology **

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
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
CHEM*1050 [0.50] General Chemistry II
PHYS*1080 [0.50] Physics for Life Sciences
0.50 Arts or Social Science electives

Semester 3
One of:
   BIOC*2580 [0.50] Introduction to Biochemistry
   MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
1.50 electives or restricted electives *

0.50 Arts or Social Science elective

Semester 4
STAT*2040 [0.50] Statistics I

One of:
   BIOC*2580 [0.50] Introduction to Biochemistry
   MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
1.00 electives or restricted electives *

0.50 Arts or Social Science elective

Semester 5 to 8
2.50 in each semester *

* Restricted Electives
1. Ecology Elective - 0.50 credits:
   BIOL*2060 [0.50] Ecology
   BIOL*3110 [0.50] Population Ecology
   BOT*3050 [0.50] Plant Functional Ecology
2. Mathematical or Computational Science Elective - 0.50 credits:
   BIOL*2250 [0.50] Biostatistics and the Life Sciences
X. Degree Programs, Bachelor of Science (B.Sc.)

413

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
STAT*2250 [0.50] Biostatistics and the Life Sciences

3. Physiology Elective - 0.50 credits:
   BIOM*3200 [1.00] Mammalian Physiology
   BOT*2100 [0.50] Life Strategies of Plants
   HK*3940 [1.25] Human Physiology
   ZOO*3200 [0.50] Comparative Animal Physiology I

4. 6.00 additional Biological Science electives 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/.

Credit Summary (20.00 credits)
4.00 - First year science core
3.00 - Required science courses semesters 3 - 8
6.00 - Approved Biological Science electives of which 4.00 must be 3000/4000 level
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 or Social Science electives
2.00 - Electives

*2.00 science credits must be at the 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 1.50 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)

Department of Bio-Medical Sciences and Department of Human Health and Nutritional Sciences

This joint program of the Department of Human Health and Nutritional Sciences and the Department of Bio-Medical Sciences focuses on the maintenance and promotion of human and animal health through the study of function (biochemistry and physiology), structure (anatomy and histology), and the basic medical sciences (epidemiology and pharmacology). It will permit graduates to contribute to society in the area of health maintenance. The program is a good preparation for students intending to develop professional or research careers in the medical and biological sciences. Through the use of electives, students may structure a program emphasizing either nutritional sciences or principles of health and disease prevention. For more information on recommended electives contact the Faculty Advisor of the major.

This program is designed to partially meet the current requirements for an 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.

Live animals and/or animal tissues are used for teaching purposes in some courses in the Bio-Medical Science Major. This must be accepted by students admitted to the program. All animals are protected under 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.

Students who are admitted into the Bio-Medical Science major from high school must meet additional requirements to continue in the major. Continuation after first year is based on the cumulative average in the first two full-time semesters (5.00 credits), including the eight core courses as prescribed by the Schedule of Studies (see below). Students with a minimum average of 75% average will be guaranteed continuation in this major. For students with a 70-74.9% average, continuation will be competitive based on available spaces. Students with an average below 70% will be changed to the Biological Science major. Students may subsequently change to another B.Sc. major of their choice.

B.Sc. students who were not admitted into the Bio-Medical Science major from high school and wish to declare the specialization at the end of first year must apply directly to the Department of Bio-Medical Sciences by the last day of classes in the winter semester and meet the additional requirements specified above.

B.Sc. students beyond first year who wish to declare the specialization must apply directly to the Department of Bio-Medical Sciences by the last day of classes in the winter semester. Admission to the major will be based on the cumulative average in the previous two full-time semesters (5.00 credits). Acceptance will be competitive based on available spaces. Students with an average below 70% will not be considered for admission to the major.

All decisions will be made at the end of June.

Major (Honours Program)
A minimum of 20.00 credits is required.

Note: Students are required to complete 16.00 credits in science of which a minimum of 2.00 credits must be at the 4000 level.

Semester 1
   BIOL*1080 [0.50] Biological Concepts of Health
   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 electives or restricted 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/revseds.

Semester 2
   BIOL*1070 [0.50] Discovering Biodiversity
   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 electives or restricted electives

Semester 3 (see admission statement above)
   BIOC*2580 [0.50] Introduction to Biochemistry
   MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
   STAT*2040 [0.50] Statistics I
   1.00 electives or restricted electives

Semester 4
   BIOC*3560 [0.50] Structure and Function in Biochemistry
   MBG*3040 [0.50] Molecular Biology of the Cell
   NUTR*3210 [0.50] Fundamentals of Nutrition
   1.00 electives or restricted electives

Semester 5
   POPM*3240 [0.50] Epidemiology
   One of:
   BIOM*3200 [1.00] Mammalian Physiology
   HK*3940 [1.25] Human Physiology
   Electives or restricted electives to a maximum of 2.75 total credits in this semester.

Semester 6
   BIOM*3040 [0.75] Medical Embryology
   BIOM*3090 [0.50] Principles of Pharmacology
   Electives or restricted electives to a maximum of 2.75 total credits in this semester.

Semester 7
   2.50 electives or restricted electives

Semester 8
   PATH*3610 [0.50] Principles of Disease
   2.00 electives or restricted electives*

Restricted Electives

1. Anatomy Elective - 1 of BIOM*3010, HK*3401/2, HK*3501/2, ZOO*2090
2. Histology Elective - BIOM*4070 or ZOO*3000
3. Immunology Elective - ANSC*4650 or MIRC*3230
4. Advanced Study Electives - 2.00 credits from BIOM*4030, BIOM*4050, BIOM*4090, BIOM*4110, BIOM*4150, BIOM*4180, BIOM*4210, BIOM*4220, 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.
5. 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*XXX, SOC*XXX)

Biophysics (BIOP)
Department of Physics, College of Physical and Engineering Science
Major (Honours Program)

The program emphasizes the physics of biological systems. It provides an excellent background for careers in the expanding interdisciplinary research laboratories of Government and Industry. Completion of the program at an appropriate level will qualify a student to pursue post-graduate studies in biophysics and certain areas of physics.

Since some of the required courses are not offered every semester, students entering the Major in Biophysics should plan their program in consultation with the Department of Physics Departmental 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 21.25 credits as indicated below. At least 1.00 credits must be from Arts and/or Social Science courses.

Semester 1

- BIOC*1090 [0.50] Introduction to Molecular and Cellular Biology
- CHEM*1040 [0.50] General Chemistry I
- CIS*1500 [0.50] Introduction to Programming

One of (MATH*1200 recommended):
- MATH*1080 [0.50] Elements of Calculus I
- MATH*1200 [0.50] Calculus I

One of (PHYS*1000 recommended):
- PHYS*1000 [0.50] An Introduction to Mechanics
- PHYS*1070 [0.50] Introductory Physics for Life Sciences
- PHYS*1080 [0.50] Physics for Life Sciences

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/revisedses

Semester 2

- CHEM*1050 [0.50] General Chemistry II

One of (PHYS*1010 recommended):
- PHYS*1010 [0.50] Introductory Electricity and Magnetism
- PHYS*1080 [0.50] Physics for Life Sciences
- PHYS*1130 [0.50] Physics with Applications

One of:
- BIOL*1070 [0.50] Discovering Biodiversity
- BIOL*1080 [0.50] Biological Concepts of Health

One of (MATH*1210 recommended):
- MATH*1210 [0.50] Calculus II
- MATH*2080 [0.50] Elements of Calculus II

0.50 Arts or Social Science electives

Semester 3

- MATH*2160 [0.50] Linear Algebra I
- MATH*2200 [0.50] Advanced Calculus I
- MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
- PHYS*2440 [0.75] Mechanics I
- PHYS*2460 [0.75] Electricity and Magnetism I

Semester 4

- MATH*2170 [0.50] Differential Equations I
- PHYS*2030 [0.50] Biophysics of Excitable Cells
- PHYS*2260 [0.50] Quantum Physics
- PHYS*2450 [0.75] Mechanics II
- PHYS*2470 [0.75] Electricity and Magnetism II

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

Semester 6

- BIOC*3560 [0.50] Structure and Function in Biochemistry
- PHYS*3220 [0.50] Waves and Optics
- PHYS*3510 [0.50] Intermediate Laboratory
- PHYS*4040 [0.50] Quantum Mechanics II
- PHYS*4540 [0.50] Molecular Biophysics

Semester 7

- MCB*4050 [0.50] Protein and Nucleic Acid Structure
- PHYS*4240 [0.50] Statistical Physics II
- PHYS*4560 [0.50] Biophysical Methods

Two of:
- PHYS*4001 [0.50] Research in Physics
- PHYS*4120 [0.50] Atomic and Molecular Physics
- PHYS*4500 [0.50] Advanced Physics Laboratory

0.50 electives
0.50 electives

Note: At least one of PHYS*4120 in semester 7 or PHYS*4150 in semester 8 must be taken. Either PHYS*4001/2 in semesters 7 and 8 or PHYS*4300 in semester 8 must be taken.

Semester 8

- BIOC*4580 [0.50] Membrane Biochemistry

One of:
- PHYS*4002 [0.50] Research in Physics
- PHYS*4300 [0.50] Inquiry in Physics

One of:
- PHYS*4150 [0.50] Solid State Physics

0.50 electives
0.50 electives

Note: At least one of PHYS*4120 in semester 7 or PHYS*4150 in semester 8 must be taken. Either PHYS*4001/2 in semesters 7 and 8 or PHYS*4300 in semester 8 must be taken.

Note: PHYS*4001/2 will be projects in biophysics, some of which may be in biological areas outside the Department of Physics.

Biophysics (Co-op) (BIOP: C)

Department of Physics, College of Physical and Engineering Science

Major (Honours Program)

Since some of the required courses are not offered every semester, students entering the Major in Biophysics (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 21.25 credits as indicated below:

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

One of (MATH*1200 recommended):
- MATH*1080 [0.50] Elements of Calculus I
- MATH*1200 [0.50] Calculus I

One of (PHYS*1010 recommended):
- PHYS*1010 [0.50] Introductory Electricity and Magnetism
- PHYS*1080 [0.50] Physics for Life Sciences
- PHYS*1130 [0.50] Physics with Applications

One of:
- BIOL*1070 [0.50] Discovering Biodiversity
- BIOL*1080 [0.50] Biological Concepts of Health

One of (MATH*1210 recommended):
- MATH*1210 [0.50] Calculus II
- MATH*2080 [0.50] Elements of Calculus II

0.50 Arts or Social Science electives

Semester 2 - Winter

- CHEM*1050 [0.50] General Chemistry II

One of (PHYS*1010 recommended):
- PHYS*1010 [0.50] Introductory Electricity and Magnetism
- PHYS*1080 [0.50] Physics for Life Sciences
- PHYS*1130 [0.50] Physics with Applications

One of:
- BIOL*1070 [0.50] Discovering Biodiversity
- BIOL*1080 [0.50] Biological Concepts of Health

One of (MATH*1210 recommended):
- MATH*1210 [0.50] Calculus II
- MATH*2080 [0.50] Elements of Calculus II

One of (PHYS*1000 recommended):
- PHYS*1000 [0.50] An Introduction to Mechanics
- PHYS*1070 [0.50] Introductory Physics for Life Sciences
- PHYS*1080 [0.50] Physics for Life Sciences

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/revisedses

Semester 3 - Fall

- CHEM*1050 [0.50] General Chemistry II

One of:
- BIOL*1070 [0.50] Discovering Biodiversity
- BIOL*1080 [0.50] Biological Concepts of Health

One of (MATH*1210 recommended):
- MATH*1210 [0.50] Calculus II
- MATH*2080 [0.50] Elements of Calculus II

One of (PHYS*1010 recommended):
- PHYS*1010 [0.50] Introductory Electricity and Magnetism
- PHYS*1080 [0.50] Physics for Life Sciences
- PHYS*1130 [0.50] Physics with Applications

0.50 Arts or Social Science electives

Semester 4 - Fall

- MATH*2170 [0.50] Differential Equations I
- PHYS*2030 [0.50] Biophysics of Excitable Cells
- PHYS*2260 [0.50] Quantum Physics
- PHYS*2450 [0.75] Mechanics II
- PHYS*2470 [0.75] Electricity and Magnetism II

Semester 5 - 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*2460 [0.75] Electricity and Magnetism I

Semester 6 - Fall

- MATH*2170 [0.50] Differential Equations I
- PHYS*2030 [0.50] Biophysics of Excitable Cells
- PHYS*2260 [0.50] Quantum Physics
- PHYS*2450 [0.75] Mechanics II
- PHYS*2470 [0.75] Electricity and Magnetism II

Summer Semester

- COOP*1100 [0.00] Co-op Work Term I ++

Semester 7 - Fall

- BIOC*3560 [0.50] Structure and Function in Biochemistry
- MATH*3100 [0.50] Differential Equations II

Last Revision: March 15, 2014
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 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

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, Economics and Mathematical Economics in the B.A.H. degree and Management Economics Industry and Finance in the B.Comm. degree.

Chemical Physics (CHPY)

Administered by the Office of the Dean, College of Physical and Engineering Science on behalf of the Department of Chemistry and the Department of Physics

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 21.75 credits is required. At least 1.00 credits is required from Arts and/or Social Science courses.

**Semester 1**
- **CHEM*1040** [0.50] General Chemistry I
- **CIS*1500** [0.50] Introduction to Programming
- **MATH*1200** [0.50] Calculus I
- **PHYS*1000** [0.50] An Introduction to Mechanics

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
- **MATH*1210** [0.50] Calculus II
- **PHYS*1010** [0.50] Introductory Electricity and Magnetism

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*3230** [0.50] Quantum Mechanics I
- **PHYS*3240** [0.50] Statistical Physics I

**Semester 6**
- **CHEM*3430** [0.50] Analytical Chemistry II: Instrumental Analysis
- **PHYS*3220** [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:

---

**Biotechnology (BIOT)**

Department of Molecular and Cellular Biology, College of Biological Science

**Minor (Honours Program)**

A minimum of 5.00 credits is required.

- **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

One of:
- **ENGG*2660** [0.50] Biological Engineering Systems I
- **ENGG*3830** [0.50] Bio-Process Engineering
- **FOOD*2620** [0.50] Food Engineering Principles

Two of:
- **ECON*1050** [0.50] Introductory Microeconomics
- **ECON*1100** [0.50] Introductory Macroeconomics
- **ECON*2100** [0.50] Economic Growth and Environmental Quality
- **ECON*2310** [0.50] Intermediate Microeconomics
- **ECON*2410** [0.50] Intermediate Macroeconomics
- **MCS*1000** [0.50] introductory Marketing

Three of:
- **ANSC*4050** [0.50] Biotechnology in Animal Science
- **FOOD*3260** [0.50] Industrial Microbiology
- **MBG*4240** [0.50] Applied Molecular Genetics
- **MICR*3230** [0.50] Immunology
- **MICR*4180** [0.50] Microbial Processes in Environmental Management
- **PBIO*3750** [0.50] Plant Tissue Culture

---

**Business Administration (BADM)**

Department of Economics and Finance, College of Management and Economics

- **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

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, Economics and Mathematical Economics in the B.A.H. degree and Management Economics Industry and Finance in the B.Comm. degree.
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 20.25 credits as indicated below:

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] Introduction to Mechanics
- CHEM*1050 [0.50] Structure and Bonding

Semester 2
- BIOL*2500 [0.50] Intermediate Programming
- MATH*2120 [0.50] Calculus II
- PHYS*2440 [0.75] Mechanics I
- PHYS*2460 [0.75] Electricity and Magnetism I

Semester 3
- 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] Waves and Optics
- PHYS*2460 [0.75] Electricity and Magnetism I

Semester 4
- 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

Fall Semester
- BIOL*3750 [0.50] Organic Chemistry II
- CHEM*3750 [0.50] Topics in Advanced Physical Chemistry +
- PHYS*4300 [0.50] Inquiry in Physics
- 0.50 electives *

Summer Semester
- PHYS*3240 [0.50] Statistical Physics I
- PHYS*3230 [0.50] Quantum Mechanics I
- PHYS*3100 [0.75] Electronics
- 0.50 electives *

Winter Semester
- CHEM*3440 [0.50] Analytical Chemistry III: Analytical Instrumentation
- CHEM*4880 [0.50] Topics in Advanced Physical Chemistry +
- 0.50 electives *

Spring Semester
- COOP*4000 [0.00] Co-op Work Term V ++
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3870 [0.50] Molecular Spectroscopy +
- PHYS*4240 [0.50] Statistical Physics I
- 0.50 electives *

Summer Semester
- CHEM*4880 [0.50] Topics in Advanced Physical Chemistry +
- PHYS*4040 [0.50] Quantum Mechanics II
- PHYS*3220 [0.50] Quantum Chemistry
- MATH*3100 [0.50] Differential Equations II
- 0.50 electives *

Winter Semester
- CHEM*3440 [0.50] Analytical Chemistry III: Analytical Instrumentation
- CHEM*4880 [0.50] Topics in Advanced Physical Chemistry +
- 0.50 electives *

Spring Semester
- COOP*4000 [0.00] Co-op Work Term V ++
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Summer Semester
- PHYS*4300 [0.50] Inquiry in Physics
- 0.50 electives *

Winter Semester
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Spring Semester
- COOP*4000 [0.00] Co-op Work Term V ++
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Summer Semester
- PHYS*4300 [0.50] Inquiry in Physics
- 0.50 electives *

Winter Semester
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Spring Semester
- COOP*4000 [0.00] Co-op Work Term V ++
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Summer Semester
- PHYS*4300 [0.50] Inquiry in Physics
- 0.50 electives *

Winter Semester
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Spring Semester
- COOP*4000 [0.00] Co-op Work Term V ++
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Summer Semester
- PHYS*4300 [0.50] Inquiry in Physics
- 0.50 electives *

Winter Semester
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Spring Semester
- COOP*4000 [0.00] Co-op Work Term V ++
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Summer Semester
- PHYS*4300 [0.50] Inquiry in Physics
- 0.50 electives *

Winter Semester
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Spring Semester
- COOP*4000 [0.00] Co-op Work Term V ++
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Summer Semester
- PHYS*4300 [0.50] Inquiry in Physics
- 0.50 electives *

Winter Semester
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Spring Semester
- COOP*4000 [0.00] Co-op Work Term V ++
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Summer Semester
- PHYS*4300 [0.50] Inquiry in Physics
- 0.50 electives *

Winter Semester
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Spring Semester
- COOP*4000 [0.00] Co-op Work Term V ++
- CHEM*3640 [0.50] Chemistry of the Elements I
- CHEM*3750 [0.50] Organic Chemistry II
- 0.50 electives *

Summer Semester
- PHYS*4300 [0.50] Inquiry in Physics
- 0.50 electives *
**Semester 4**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*2070</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*1220</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Semester 5**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*2700</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3430</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*2170</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*2260</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Semester 6**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*3650</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3760</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Semester 7 and 8**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*3440</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Winter Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*1000</td>
<td>[0.00]</td>
</tr>
</tbody>
</table>

**Semester 4 - Summer**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*2070</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3430</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*2170</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*2260</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Semester 5 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*2820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3640</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3750</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3860</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Winter Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*2000</td>
<td>[0.00]</td>
</tr>
</tbody>
</table>

**Semester 6 - Summer**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*3650</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3760</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Semester 7 - Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*3820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3440</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3640</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Winter Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*3000</td>
<td>[0.00]</td>
</tr>
</tbody>
</table>

**Semester 8 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Note:**
- All courses marked with an asterisk (*) are required.
- Courses marked with a double asterisk (**) are recommended.
- Courses marked with a triple asterisk (***) are elective.

### Minor (Honours Program)

- A minor in Chemistry consists of at least 5.00 credits in Chemistry courses (CHEM) at the 2000 level or above including a minimum of 2.50 credits at the 3000 or 4000 level. Exclusions: CHEM*2300 and CHEM*3360 cannot be counted toward 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 20.25 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. These can be taken as four single work terms (Stream A), or as a double work term between two single work terms (Stream B).

**Stream A: single work term option**

**Semester 1 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*1000</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Semester 2 - Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>[0.50]</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>[0.00]</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*1010</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1070</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Stream B: double work term option**

**Semester 1 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1090</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*1200</td>
<td>[0.50]</td>
</tr>
<tr>
<td>PHYS*1000</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Semester 2 - Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>[0.50]</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>[0.00]</td>
</tr>
<tr>
<td>MATH*1210</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**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.

---

**X. Degree Programs, Bachelor of Science (B.Sc.)**

1417

---

**Co-op Work Term I**

- Organic Chemistry I
- Analytical Chemistry II: Instrumental Analysis
- Calculus II
- An Introduction to Mechanics

**Co-op Work Term II**

- Thermodynamics and Kinetics
- Structure and Spectroscopy
- Organic Chemistry II
- Analytical Chemistry III: Analytical Instrumentation

**Advisory note:**

- 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)

---

**BIOL*1080 [0.50]** Biological Concepts of Health
0.50 electives

**Semester 3 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2580</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*2060</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*2400</td>
<td>[0.75]</td>
</tr>
<tr>
<td>MATH*2150</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

0.50 electives*

**Winter Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*1000</td>
<td>[0.00]</td>
</tr>
</tbody>
</table>

**Semester 4 - Summer**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*2070</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3100</td>
<td>[0.50]</td>
</tr>
<tr>
<td>MATH*2170</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Semester 5 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*2820</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3440</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3640</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3860</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Winter Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*2000</td>
<td>[0.00]</td>
</tr>
</tbody>
</table>

**Semester 6 - Summer**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*3650</td>
<td>[0.50]</td>
</tr>
<tr>
<td>CHEM*3760</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Summer Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*4000</td>
<td>[0.00]</td>
</tr>
</tbody>
</table>

**Semester 8 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
<td>[0.50]</td>
</tr>
</tbody>
</table>

**Note:**
- All courses marked with an asterisk (*) are required.
- Courses marked with a double asterisk (**) are recommended.
- Courses marked with a triple asterisk (***) are elective.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS*1010</td>
<td>0.50</td>
<td>Introductory Electricity and Magnetism</td>
</tr>
<tr>
<td>One of BIOL*1070 [0.50] Discovering Biodiversity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
<td>Biological Concepts of Health</td>
</tr>
<tr>
<td>0.50 electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 3 - Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOC*2580</td>
<td>0.50</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>CHEM*2060</td>
<td>0.50</td>
<td>Structure and Bonding</td>
</tr>
<tr>
<td>CHEM*2400</td>
<td>0.75</td>
<td>Analytical Chemistry I</td>
</tr>
<tr>
<td>MATH*2150</td>
<td>0.50</td>
<td>Applied Matrix Algebra</td>
</tr>
<tr>
<td>0.50 electives*</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Winter Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COOP*1000</td>
<td>0.00</td>
<td>Co-op Work Term I</td>
</tr>
<tr>
<td><strong>Semester 4 - Summer</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM*2070</td>
<td>0.50</td>
<td>Structure and Spectroscopy</td>
</tr>
<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>
</tr>
<tr>
<td>MATH*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><strong>Semester 5 - Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM*2820</td>
<td>0.50</td>
<td>Thermodynamics and Kinetics</td>
</tr>
<tr>
<td>CHEM*3640</td>
<td>0.50</td>
<td>Chemistry of the Elements I</td>
</tr>
<tr>
<td>CHEM*3750</td>
<td>0.50</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM*3860</td>
<td>0.50</td>
<td>Quantum Chemistry</td>
</tr>
<tr>
<td>0.50 electives*</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester 6 - Winter</strong></td>
<td></td>
<td></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>0.50 electives*</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Summer Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COOP*2000</td>
<td>0.00</td>
<td>Co-op Work Term II</td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COOP*3000</td>
<td>0.00</td>
<td>Co-op Work Term III</td>
</tr>
<tr>
<td><strong>Semester 7 - Winter</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.50 electives*</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Summer Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COOP*4000</td>
<td>0.00</td>
<td>Co-op Work Term IV</td>
</tr>
<tr>
<td><strong>Semester 8 - Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM*3440</td>
<td>0.50</td>
<td>Analytical Chemistry III: Analytical Instrumentation</td>
</tr>
<tr>
<td>2.00 electives*</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Note:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1500</td>
<td>0.50</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>CIS*1910</td>
<td>0.50</td>
<td>Discrete Structures in Computing I</td>
</tr>
<tr>
<td>CIS*2430</td>
<td>0.50</td>
<td>Object Oriented Programming</td>
</tr>
<tr>
<td>CIS*2500</td>
<td>0.50</td>
<td>Intermediate Programming</td>
</tr>
<tr>
<td>CIS*2520</td>
<td>0.50</td>
<td>Data Structures</td>
</tr>
<tr>
<td>CIS*2750</td>
<td>0.75</td>
<td>Software Systems Development and Integration</td>
</tr>
<tr>
<td>CIS*2910</td>
<td>0.50</td>
<td>Discrete Structures in Computing II</td>
</tr>
<tr>
<td>CIS*3530</td>
<td>0.50</td>
<td>Data Base Systems and Concepts</td>
</tr>
</tbody>
</table>

1.00 additional credits from CIS or STAT courses at the 2000 level or above

**Ecology (ECOL)**

**Department of Integrative Biology, College of Biological Science**

The program provides a solid foundation in the principles of ecology, and further training in both pure and applied aspects of ecology. After the fourth semester, the student may choose to enter one (1) of three (3) areas of emphasis, or to design a course package that meets his/her own specific ecological interests (General Ecology). The program offers preparation for careers in conservation, resource management, ecological consulting, or nature interpretation; or for graduate training and research in fundamental ecology and evolutionary biology. This major qualifies students for post-graduate work in the environmental 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>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>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>0.50 Arts or Social Science electives</td>
<td></td>
<td></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.uqueleph.ca/revisedss](http://www.bsc.uqueleph.ca/revisedss)

**Semester 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
<td>Biological Concepts of Health</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>PHYS*1080</td>
<td>0.50</td>
<td>Physics for Life Sciences</td>
</tr>
<tr>
<td>0.50 Arts or Social Science electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 3**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBO*2040</td>
<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG*1300</td>
<td>0.50</td>
<td>Introduction to the Biophysical Environment</td>
</tr>
<tr>
<td>GEOL*1050</td>
<td>0.50</td>
<td>Geology and the Environment</td>
</tr>
<tr>
<td>1.00 electives or restricted electives*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 4**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*2580</td>
<td>0.50</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>BIOL*3110</td>
<td>0.50</td>
<td>Population Ecology</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL*2250</td>
<td>0.50</td>
<td>Biostatistics and the Life Sciences</td>
</tr>
<tr>
<td>STAT*2050</td>
<td>0.50</td>
<td>Statistics II</td>
</tr>
<tr>
<td>STAT*2250</td>
<td>0.50</td>
<td>Biostatistics and the Life Sciences</td>
</tr>
<tr>
<td>1.00 electives*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 5**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3010</td>
<td>0.50</td>
<td>Laboratory and Field Work in Ecology</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOT*2100</td>
<td>0.50</td>
<td>Life Strategies of Plants</td>
</tr>
<tr>
<td>ZOO*3200</td>
<td>0.50</td>
<td>Comparative Animal Physiology I</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL*3020</td>
<td>0.50</td>
<td>Population Genetics</td>
</tr>
<tr>
<td>BIOL*3400</td>
<td>0.50</td>
<td>Evolution</td>
</tr>
<tr>
<td>1.00 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 6**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3120</td>
<td>0.50</td>
<td>Community Ecology</td>
</tr>
<tr>
<td>2.00 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 7**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*4110</td>
<td>0.75</td>
<td>Ecological Methods</td>
</tr>
<tr>
<td>1.75 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Semester 8**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*4120</td>
<td>0.50</td>
<td>Evolutionary Ecology</td>
</tr>
<tr>
<td>2.00 electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Restricted Electives

One of:
Areas of Emphasis

General Ecology (GECO)
A minimum of 3.00 credits from the area-of-emphasis-specific credits, plus 1.50 additional science credits. Of the 4.50 credits, at least 3.50 must be at the 3000 or 4000 level.

Experimental Ecology (EECO)
ZOO*4070 [0.50] Animal Behaviour
ZOO*4170 [0.50] Experimental Comparative Animal Physiology
0.75 credits from:
   BIOL*4410 [0.75] Field Ecology
   BIOL*4600 [0.75] Tropical 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

Interpretive Ecology (IE)
ENVB*3000 [0.50] Nature Interpretation
ZOO*4070 [0.50] Animal Behaviour
ZOO*4910 [0.50] Integrative Vertebrate Biology
0.75 credits from:
   BIOL*4410 [0.75] Field Ecology
   BIOL*4600 [0.75] Tropical 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

At least 0.75 additional science credits at the 3000 or 4000 level

Resource Conservation (RC)
BIOL*3130 [0.50] Conservation Biology
BIOL*4040 [0.50] Natural Resources Policy
ECON*1050 [0.50] Introductory Microeconomics
FARE*2500 [0.50] Survey of Natural Resource Economics
2.50 additional science credits at least 1.50 of which are at the 3000 or 4000 level

Recommended:
   BIOL*4060 [0.50] Restoration Ecology
   BIOL*4150 [0.50] Wildlife Conservation and Management
   ECON*2100 [0.50] Economic Growth and Environmental Quality
   ENVB*2030 [0.50] Current Issues in Forest Science
   ENVB*4780 [0.50] Forest Ecology
   ENVS*3320 [0.50] Principles of Landscape Ecology

Minor (Honours Program)
A minimum of 5.00 credits is required to complete the minor, which must include:
   BIOL*3010 [0.50] Laboratory and Field Work in Ecology
   BIOL*3110 [0.50] Population Ecology
   BIOL*3120 [0.50] Community Ecology
   BIOL*4110 [0.75] Ecological Methods
   BIOL*4120 [0.50] Evolutionary Ecology
One of:
   BIOL*3020 [0.50] Population Genetics
   BIOL*3400 [0.50] Evolution

One of:
   BOT*2100 [0.50] Life Strategies of Plants
   ZOO*2090 [0.50] Vertebrate Structure and Function

One of:
   GEOG*1220 [0.50] Human Impact on the Environment
   GEOG*1300 [0.50] Introduction to the Biophysical Environment
   GEOL*1050 [0.50] Geology and the Environment

0.75 credits chosen in consultation with the faculty advisor

Environmental Biology (ENVB)

School of Environmental Sciences, Ontario Agricultural College
The honours B.Sc. program in Environmental Biology combines a broad education in the life sciences with a more specialized understanding of the biological consequences of interactions between humans and the environment. This major prepares students for post-graduate work in environmental biology and related life sciences and provides a strong foundation 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. This major requires the completion of 20.00 credits. A minimum of 16.00 of these 20.00 must be science credits. Of these 16.00 science credits, a minimum of 6.00 must be at the 3000 - 4000 levels with a minimum of 2.00 credits 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 elective

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/revisedse6

Semester 2
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 elective

Semester 3
BIOC*2580 [0.50] Introduction to Biochemistry
STAT*2040 [0.50] Statistics I (if not taken in semester 2)
TOX*2000 [0.50] Principles of Toxicology
1.00 electives or restricted electives chosen from lists A, B, C and/or D (or 1.50 if STAT*2040 was taken in semester 2)

Semester 4
BIOL*3110 [0.50] Population Ecology
ENVB*2100 [0.50] Problem-Solving in Environmental Biology
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
1.00 electives or restricted electives chosen from lists A, B, C and/or D

Semester 5
2.50 electives or restricted electives chosen from lists A, B, C and/or D (at least 1.00 restricted electives must be selected, including at least one ENVB course)

Students are encouraged to take (ENVS*3410 and ENVS*3420) or ENVS*3430 in Semesters 5 and 6.

Semester 6
BIOL*3400 [0.50] Evolution
ENVB*3330 [0.50] Ecosystem Processes and Applications
1.50 electives or restricted electives chosen from lists A, B, C and/or D

Semester 7
2.50 electives or restricted electives chosen from lists A, B, C and/or D

Students contemplating graduate studies are encouraged to take ENVS*4410 in semester 7 and ENVS*4420 in semester 8, or ENVS*4430 in either semester 7 or 8.

Semester 8
2.50 electives or restricted electives chosen from lists A, B, C and/or D

Restricted Electives
Select 4.50 credits from the following lists of restricted electives during Semesters 3-8.

At least 1.00 of these credits must be from ENVB courses.
Students should note that some restricted electives (marked by asterisks **) require other restricted electives as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

**List A - Environment & Agriculture**

Minimum of 1.00 credits from the following list:

- CROP*2110 [0.50] Crop Ecology
- CROP*2280 [0.50] Crops in Land Reclamation
- ENVP*2040 [0.50] Plant Health and the Environment
- ENVP*3040 [0.50] Natural Chemicals in the Environment
- ENVP*3210 [0.50] Plant Pathology
- ENVP*4040 [0.50] Behaviour of Insects **
- ENVP*4100 [0.50] Integrated Management of Invasive Insect Pests **
- ENVP*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] Biology of Polluted Waters **
- BIOL*4610 [0.75] Arctic Ecology
- ENVP*3010 [0.50] Climate Change Biology
- ENVP*3030 [0.50] Pesticides and the Environment
- ENVP*3280 [0.50] Waterborne Disease Ecology
- ENVP*4240 [0.50] Biological Activity of Pesticides
- ENVP*4550 [0.50] Toxicological Risk Characterization **
- 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 **
- TOX*3600 [0.50] Environmental Chemistry and Toxicology

**List C - Conservation of Biodiversity & Natural Resources**

Minimum of 1.00 credits from the following list:

- BIOL*3130 [0.50] Conservation Biology
- BIOL*4040 [0.50] Natural Resources Policy
- BIOL*4150 [0.50] Wildlife Conservation and Management
- BIOL*4600 [0.50] Tropical Ecology
- ENVP*2030 [0.50] Current Issues in Forest Science
- ENVP*3090 [0.50] Insect Diversity and Biology
- ENVP*3230 [0.50] Agroforestry Systems **
- ENVP*3250 [0.50] Forest Health and Disease
- ENVP*3270 [0.50] Forest Biodiversity **
- ENVP*4202 [0.50] Water Quality and Environmental Management **
- ENVP*4220 [0.50] Biology of Aquatic Insects **
- ENVP*4260 [0.50] Field Entomology **
- ENVP*4270 [0.50] Insect Biosystematics **
- ENVP*4780 [0.50] Forest Ecology **
- NRS*3100 [0.50] Resource Planning Techniques
- SOIL*3050 [0.50] Land Utilization **
- SOIL*3080 [0.50] Soil and Water Conservation **

**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
- MCB*2050 [0.50] Molecular Biology of the Cell
- SOIL*2010 [0.50] Soil Science

**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**

- BIOL*1070 [0.50] Discovering Biodiversity
- CHEM*1040 [0.50] General Chemistry I
- GEOL*1050 [0.50] Geology and the Environment
- PHYS*1080 [0.50] Physics for Life Sciences

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/revisedsoc](http://www.bsc.uoguelph.ca/revisedsoc)

**Semester 2**

- BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
- CHEM*1050 [0.50] General Chemistry II
- GEOL*1300 [0.50] Introduction to the Biophysical Environment
- PHYS*1130 [0.50] Physics with Applications

0.50 Arts or Social Science electives* (GEOG*1220 is recommended)

**Semester 3**

- BIOG*2000 [0.50] Geomorphology
- GEOG*2420 [0.50] The Earth From Space
- GEOG*2480 [0.50] Mapping and GIS

One of:

- GEOG*2460 [0.50] Analysis in Geography
- STAT*2040 [0.50] Statistics I

0.50 Arts or Social Science electives*

**Semester 4**

- BIOG*2110 [0.50] Climate and the Biophysical Environment
- GEOG*2210 [0.50] Environment and Resources

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**

- GEOG*3000 [0.50] Fluvial Processes
- GEOG*3110 [0.50] Biotic and Natural Resources

One of:

- GEOG*3020 [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**

- GEOG*3420 [0.50] Remote Sensing of the Environment
- GEOG*3480 [0.50] GIS and Spatial Analysis
- GEOG*3610 [0.50] Environmental Hydrology

1.00 electives, at least 0.50 from approved Science electives*

**Semester 7**

- GEOG*4110 [1.00] Environmental Systems Analysis

1.50 electives, at least 1.00 from approved Science electives*

**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)
X. Degree Programs, Bachelor of Science (B.Sc.)
POPM*4040

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
BIOL*1080
[0.50]
Biological Concepts of Health
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/revisedss

Semester 2 - Winter
BIOL*1090
[0.50]
Introduction to Molecular and Cellular Biology
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

Semester 3 - Fall
BIOC*2580
CHEM*2880
FOOD*2150
MICR*2420
0.50 electives

[0.50]
[0.50]
[0.50]
[0.50]

Introduction to Biochemistry
Physical Chemistry
Introduction to Nutritional and Food Science
Introduction to Microbiology

Semester 4 - Winter
FOOD*2100
FOOD*2620
NUTR*3210
STAT*2040
0.50 electives

[0.50]
[0.50]
[0.50]
[0.50]

Communication in Food Science
Food Engineering Principles
Fundamentals of Nutrition
Statistics I

Semester 5 - Fall
FOOD*3030
FOOD*3160
FOOD*3230
0.50 electives

[0.50]
[0.75]
[0.75]

Food Chemistry I
Food Processing I
Food Microbiology

Semester 6 - Winter
FOOD*3040
FOOD*3170
FOOD*3260
FOOD*3700
0.50 electives

[0.50]
[0.50]
[0.50]
[0.50]

[0.50]

Food Analysis

Semester 8 - Winter
FOOD*4600
1.50 electives

[1.00]

[0.50]

Epidemiology of Food-borne Diseases

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)

Minor (Honours Program)
The Minor in Food Science consists of 5.00 credits as follows:
BIOC*2580
[0.50]
Introduction to Biochemistry
FOOD*3030
[0.50]
Food Chemistry I
FOOD*3230
[0.75]
Food Microbiology
MICR*2420
[0.50]
Introduction to Microbiology
One of:
FOOD*2010
[0.50]
Principles of Food Science
FOOD*2150
[0.50]
Introduction to Nutritional and Food Science
NUTR*2150
[0.50]
Introduction to Nutritional and Food Sciences
One of:
FOOD*2410
[0.50]
Introduction to Food Processing
FOOD*3160
[0.75]
Food Processing I

Restricted Electives
Choose from the following list to bring the total to a minimum of 5.00 credits for the
Minor:
FOOD*2620
[0.50]
Food Engineering Principles
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
FOOD*4070
[0.50]
Food Packaging
FOOD*4090
[0.50]
Functional Foods and Nutraceuticals
FOOD*4110
[0.50]
Meat and Poultry Processing
FOOD*4120
[0.50]
Food Analysis
FOOD*4310
[0.50]
Food Safety Management Systems
FOOD*4400
[0.50]
Dairy Processing
FOOD*4520
[0.50]
Utilization of Cereal Grains for Human Food
FOOD*4600
[1.00]
Food Product Development
NUTR*3210
[0.50]
Fundamentals of Nutrition
POPM*4040
[0.50]
Epidemiology of Food-borne Diseases

Food Science (Co-op) (FOOD:C)
Department of Food Science, Ontario Agricultural College

Food Chemistry II
Food Processing II
Industrial Microbiology
Sensory Evaluation of Foods

Semester 7 - Fall
FOOD*4120
2.00 electives

421

Food Product Development

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:
FOOD*4070
[0.50]
Food Packaging
FOOD*4090
[0.50]
Functional Foods and Nutraceuticals
FOOD*4110
[0.50]
Meat and Poultry Processing
FOOD*4220
[0.25]
Topics in Food Science
FOOD*4230
[0.25]
Research in Food Science
FOOD*4310
[0.50]
Food Safety Management Systems
FOOD*4400
[0.50]
Dairy Processing
FOOD*4520
[0.50]
Utilization of Cereal Grains for Human Food
MCS*3010
[0.50]
Quality Management
Last Revision: March 15, 2014

Major (Honours Program)
Semester 1 - Fall
BIOL*1080
[0.50]
Biological Concepts of Health
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/revisedss

Semester 2 - Winter
BIOL*1090
[0.50]
Introduction to Molecular and Cellular Biology
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
CHEM*2880
COOP*1100
FOOD*2150
MICR*2420
0.50 electives

[0.50]
[0.50]
[0.00]
[0.50]
[0.50]

Introduction to Biochemistry
Physical Chemistry
Introduction to Co-operative Education
Introduction to Nutritional and Food Science
Introduction to Microbiology

Semester 4 - Winter
FOOD*2100
FOOD*2620

[0.50]
[0.50]

Communication in Food Science
Food Engineering Principles
2011-2012 Undergraduate Calendar


NUTR*4090 [0.50] Functional Foods and Nutraceuticals
2.00 Restricted Electives*
*restricted electives should be chosen in consultation with the Nutritional and Nutraceutical Sciences faculty advisor. Any 3000 and 4000 level courses from the following subject areas are eligible as restricted electives: Nutrition**, Food Science**, Biomedical Sciences**, Toxicology, Population Medicine, Animal Science, Plant Biology, Human Genetics**, and Pathology.

**students in these majors must select restricted electives outside of the major

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:

GEOG*1300 [0.50] Introduction to the Biophysical Environment
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
At least 1.50 credits from:

GEOG*2110 [0.50] Climate and the Biophysical Environment
GEOG*2210 [0.50] Environment and Resources
GEOG*3110 [0.50] Biotic and Natural Resources
GEOG*3210 [0.50] Management of the Biophysical Environment
GEOG*4110 [1.00] Environmental Systems Analysis
GEOG*4210 [0.50] Environmental Governance

Geology (GEOL)

School of Environmental Sciences, Ontario Agricultural College

Minor (Honours Program)
A minor will consist of at least 5.00 credits in Geology. The following 6 courses are mandatory:

GEOL*1050 [0.50] Geology and the Environment
GEOL*2020 [0.50] Stratigraphy
GEOL*2110 [0.50] Earth Material Science
GEOL*2200 [0.50] Glacial Geology
GEOL*3090 [0.50] Applied Structural Geology
GEOL*4090 [0.50] Sedimentology

The remaining credits can be chosen from Geology or the Geomorphology offerings in Geography in the calendar and must be 2000 level or above.

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 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 1

BIOC*1080 [0.50] Biological Concepts of Health
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

Semester 2

BIOC*1070 [0.50] Discovering Biodiversity
BIOC*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

BIOC*2580 [0.50] Introduction to Biochemistry
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
STAT*2040 [0.50] Statistics I
0.50 electives
### X. Degree Programs, Bachelor of Science (B.Sc.)

#### 0.50 Arts or Social Science electives

**Semester 4**
- HK*2270 [0.50] Principles of Human Biomechanics
- MCB*2050 [0.50] Molecular Biology of the Cell
- NUTR*3210 [0.50] Fundamentals of Nutrition
- 0.50 electives

**Semester 5**
- HK*3600 [0.75] Human Anatomy: Dissection
- HK*3940 [1.25] Human Physiology
- One of
  - HK*3401 [0.75] Human Anatomy: Dissection
  - HK*3501 [0.75] Human Anatomy: Prosection

**Semester 6**
- BIOC*3560 [0.50] Structure and Function in Biochemistry
- HK*3100 [0.50] Neuromuscular Physiology
- HK*4600 [0.75] Applied Human Physiology
- One of
  - HK*3402 [0.75] Human Anatomy: Dissection (if registered in HK*3401 in semester 5)
  - HK*3502 [0.75] Human Anatomy (if registered in HK*3501 in semester 5)

**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

**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**
- STAT*2400 [0.50] Statistics I
- ZOO*2090 [0.50] Vertebrate Structure and Function
- ZOO*2100 [0.50] Developmental Biology
- 1.00 electives

**Semester 4**
- BIOC*2580 [0.50] Introduction to Biochemistry
- MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
- ZOO*2700 [0.50] Invertebrate Morphology & Evolution
- 1.00 electives

**Semester 5**
- BIOL*3110 [0.50] Population Ecology
- BIOL*3400 [0.50] Evolution
- BIOL*3450 [0.50] Introduction to Aquatic Environments
- ZOO*3200 [0.50] Comparative Animal Physiology I
- ZOO*3700 [0.50] Integrative Biology of Invertebrates

**Semester 6**
- BIOL*3120 [0.50] Community Ecology
- ZOO*3210 [0.50] Comparative Animal Physiology II
- 1.50 electives

**Semester 7**
- BIOL*4350 [0.50] Biology of Polluted Waters
- ZOO*4570 [0.50] Marine Ecological Processes
- ZOO*4910 [0.50] Integrative Vertebrate Biology
- ZOO*4930 [0.25] Lab Studies in Ichthyology
- 0.75 electives

**Semester 8**
- BIOL*4010 [0.50] Adaptational Physiology
- ZOO*4330 [0.50] Biology of Fishes
- 1.50 electives
- * CIS*1200 is recommended for those needing to improve their computer skills
- ** suggested electives list available from the faculty advisors
- *** BIOL*2580 is strongly recommended if independent research project courses are anticipated in semesters 7 and/or 8

### Electives - must include:

1. A minimum of 0.75 credits from:
   - BIOL*4110 [0.75] Ecological Methods
   - BIOL*4410 [0.75] Field Ecology
   - BIOL*4610 [0.75] Arctic Ecology
   - BIOL*4700 [0.50] Field Ecology
   - BIOL*4710 [0.25] Field Ecology
   - BIOL*4800 [0.50] Field Ecology
   - BIOL*4810 [0.25] Field Ecology
   - 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

2. Other field or research courses with approval of faculty advisor.
3. At least 1.00 Arts and/or Social Science electives.

### Mathematical Science (MSCI)

#### Department of Mathematics & Statistics, College of Physical and Engineering Science

##### Minor (Honours Program)

This requires a total of 42 credits in Mathematics, Statistics, and computing and information science. For these 4.00 credits students will select at least 5.00 from each discipline. At least 1.00 credits must be at the 3000 level or above. This minor cannot be combined with a minor 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 minimum total of 24.00 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
- MATH*1200 [0.50] Calculus I
- PHYS*1000 [0.50] An Introduction to Mechanics
- One of
  - BIOL*1070 [0.50] Discovering Biodiversity
  - BIOL*1080 [0.50] Biological Concepts of Health

**Semester 2**
- CHEM*1050 [0.50] General Chemistry II
- MATH*1210 [0.50] Calculus II
- PHYS*1010 [0.50] Introductory Electricity and Magnetism
- One of
  - BIOL*1070 [0.50] Discovering Biodiversity
  - BIOL*1080 [0.50] Biological Concepts of Health

---

*Last Revision: March 15, 2014*
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 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

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

BIOC*1070 [0.50] Discovering Biodiversity
BIOC*2050 [0.50] Molecular Biology of the Cell
MCB*2430 [0.50] Microbiology Methods I
0.50 electives
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

BIOC*3560 [0.50] Structure and Function in Biochemistry
MBG*3080 [0.50] Molecular Biology of the Cell
MICR*3430 [0.50] Microbiology Methods II
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 and Development
MICR*3430 [0.50] Microbiology Methods II
A minimum of 0.75 electives or restricted electives

Semester 7

MICR*3260 [0.50] Microbial Adaptation and Development
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*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.

Restricted Elective Credits

3.50 restricted elective credits of which 1.00 credit must be at the 4000 level.

BIOC*4540 [0.75] Enzymology
BIOC*4580 [0.50] Membrane Biochemistry
BIOC*5050 [0.50] Mycology
ENVB*3280 [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*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*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.

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 can take the B.Sc. program with a Major or a Minor in Microbiology, or combine the minor with another major. Students should plan their programs in consultation with the microbiology faculty advisor. As course offerings may change during the program, students are strongly encouraged to review their plans at least once a year with their advisors, and to check the departmental website for program news.
Minor (Honours Program)
The minor in Microbiology consists of the following 5.25 credits:

- Structure and Function in Biochemistry (0.50)
- Laboratory Methods in Molecular Biology I (0.75)
- Introduction to Microbiology (0.50)
- Microbiology Methods I (0.50)

Microbiology (Co-op) (MICR:C)

Department of Molecular and Cell 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 BIOS*1080, BIOS*1090, BIOS*1100 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*2000, COOP*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
- Introduction to Molecular and Cellular Biology (0.50)
- General Chemistry I (0.50)
- Elements of Calculus I (0.50)
- Introductory Physics for Life Sciences (0.50)

Semester 2 - Winter
- Introductory Course in Biology, Chemistry or Physics (0.50)
- Discovering Biodiversity (0.50)
- Biological Concepts of Health (0.50)
- Physics for Life Sciences (0.50)

Semester 3 - Fall
- Introduction to Biochemistry (0.50)
- Introduction to Co-operative Education (0.00)
- Foundations in Molecular Biology and Genetics (0.50)
- Introduction to Microbiology (0.50)

Semester 4 - Winter
- Structure and Function in Biochemistry (0.50)
- Molecular Biology of the Cell (0.50)
- Microbiology Methods I (0.50)

Semester 5 - Fall
- Bacterial Genetics (0.50)
- Microbial Diversity (0.50)
- Microbial Adaptation and Development (0.50)
- Microbiology Methods II (0.50)

Semester 6 - Winter
- Laboratory Methods in Molecular Biology I (0.75)
- Enzymology (0.50)
- Microbial Ecology (0.50)
- Microbial Processes in Environmental Management (0.50)

Summer Semester
- Co-op Work Term I (0.00)

Winter Semester
- Co-op Work Term II (0.00)

Spring Semester
- Co-op Work Term III (0.00)

Notes:
- 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

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 can choose a general program or can 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.  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

Major (Honours Program)

A total of 20.00 credits is required to complete the major.

Semester 1
- Introduction to Molecular and Cellular Biology (0.50)
- General Chemistry I (0.50)
- Elements of Calculus I (0.50)
- Introductory Physics for Life Sciences (0.50)
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
One of:
CIS*1200 [0.50] Introduction to Computing
CIS*1500 [0.50] Introduction to Programming

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 electives or restricted electives

Semester 4
MCB*2050 [0.50] Molecular Biology of the Cell
MICR*2430 [0.50] Microbiology Methods I
STAT*2050 [0.50] Statistics II
1.00 electives or restricted electives

Semester 5
MBG*3350 [0.75] Laboratory Methods in Molecular Biology I
1.75 electives or restricted electives

Semester 6
2.50 electives or restricted electives

Semester 7*
MCB*4500 [1.00] Research Project in Molecular & Cellular Biology I
1.50 electives or restricted electives

Semester 8*
MCB*4510 [1.00] Research Project in Molecular & Cellular Biology II
1.50 electives or restricted electives

*instead of the 2 semester sequence of MCB*4500 / MCB*4510 students may choose to take MCB*4600 and 1.50 subject area electives at the 4000 level.

Restricted Electives
1. Ecology Elective - 0.50 credits
BIOL*2060 [0.50] Ecology
BIOL*3110 [0.50] Population Ecology
BOT*3050 [0.50] Plant Functional Ecology
MICR*4280 [0.50] Microbial Ecology

2. Arts and Social Science Electives - 2.00 credits

3. Physiology Elective - 0.50 credits
BIOM*3200 [1.00] Mammalian Physiology
BOT*3310 [0.50] Plant Growth and Development
HK*3940 [1.25] Human Physiology
ZOO*3200 [0.50] Comparative Animal Physiology I

4. Subject Area Electives - 3.00 credits (4.50 if MCB*4600 is taken instead of MCB*4500 and MCB*4510)

BIOL*3560 [0.50] Structure and Function in Biochemistry
BIOL*3020 [0.50] Population Genetics
BIOL*3300 [0.50] Applied Bioinformatics
MGB*3050 [0.50] Human Genetics
MBG*3060 [0.50] Quantitative Genetics
MBG*3080 [0.50] Bacterial Genetics
MBG*3100 [0.50] Plant Genetics
MBG*3100 [0.50] Plant Genetics
MBG*3360 [0.75] Laboratory Methods in Molecular Biology II
MBG*3660 [0.50] Genomics
MBG*4030 [0.50] Animal Breeding Methods
MBG*4040 [0.50] Genetics and Molecular Biology of Development
MBG*4070 [0.50] Genetics and Molecular Biology of Development
MBG*4080 [0.50] Molecular Genetics
MBG*4110 [0.50] Advanced Concepts in Genetics
MBG*4160 [0.50] Plant Breeding
MBG*4160 [0.50] Plant Breeding
MBG*4240 [0.50] Applied Molecular Genetics
MBG*4270 [0.50] DNA Replication, Recombination and Repair
MBG*4300 [0.50] Plant Molecular Genetics
MBG*4400 [0.50] Advanced Cell Biology
MBG*4505 [0.50] Protein and Nucleic Acid Structure
MICR*3330 [0.50] World of Viruses
MICR*4330 [0.50] Molecular Virology

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:
MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
MBG*2050 [0.50] Molecular Biology of the Cell

4.00 credits from:
BIOL*3560 [0.50] Structure and Function in Biochemistry
BIOL*3020 [0.50] Population Genetics
BIOL*3300 [0.50] Applied Bioinformatics
MGB*3050 [0.50] Human Genetics
MBG*3060 [0.50] Quantitative Genetics
MBG*3080 [0.50] Bacterial Genetics
MBG*3100 [0.50] Plant Genetics
MBG*3660 [0.50] Genomics
MBG*4030 [0.50] Animal Breeding Methods
MBG*4040 [0.50] Genetics and Molecular Biology of Development
MBG*4070 [0.50] Genetics and Molecular Biology of Development
MBG*4080 [0.50] Molecular Genetics
MBG*4110 [0.50] Advanced Concepts in Genetics
MBG*4160 [0.50] Plant Breeding
MBG*4240 [0.50] Applied Molecular Genetics
MBG*4270 [0.50] DNA Replication, Recombination and Repair
MBG*4300 [0.50] Plant Molecular Genetics
MBG*4400 [0.50] Advanced Cell Biology
MBG*4505 [0.50] Protein and Nucleic Acid Structure
MICR*3330 [0.50] World of Viruses
MICR*4330 [0.50] Molecular Virology

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
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology
CHEM*1040 [0.50] General Chemistry I
MATH*1200 [0.50] Calculus I
NANO*1000 [0.50] Introduction to Nanoscience
PHYS*1000 [0.50] An Introduction to Mechanics

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
CHEM*1050 [0.50] General Chemistry II
MATH*1210 [0.50] Calculus II
PHYS*1010 [0.50] Introductory Electricity and Magnetism

One of
BIOL*1070 [0.50] Discovering Biodiversity
BIOL*1080 [0.50] Biological Concepts of Health
0.50 electives

Semester 3
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
CHEM*2070 [0.50] Structure and Spectroscopy
MATH*2170 [0.50] Differential Equations I
NANO*2100 [0.50] Analysis of Nanomaterials
1.00 electives*

Semester 5
CHEM*3860 [0.50] Quantum Chemistry
PHYS*3230 [0.50] Quantum Mechanics I
NANO*3500 [0.50] Thin Film Science
NANO*3600 [0.50] Computational Methods in Materials Science
1.00 electives

Semester 6
NANO*3200 [0.50] Nanolithographic Techniques
NANO*3300 [0.50] Spectroscopy of Nanomaterials
NANO*3700 [0.50] Introduction to Quantum Computing
1.00 electives

Semester 7
NANO*4100 [0.50] Biological Nanomaterials
2.00 electives

Semester 8
NANO*4200 [0.50] Topics in Nanomaterials
2.00 electives
* If a student wants to take PHYS*3230 in semester 5, then they must select PHYS*3230 and PHYS*3240 as electives in semester 4.

Selection of electives is subject to the following rules:
1. The student must select at least 1.00 credits in Arts or Social Science.
2. The program must include at least 6.00 science credits at the 3000 and 4000 level of which at least 2.00 must be at the 4000 level.
3. In semesters 7 and 8, the student must select to do either NANO*4900 or NANO*4910.

In completing the science requirements for the degree, some suggested complementary areas of focus are:

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*3760
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)

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. 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
MATH*1200 [0.50] Calculus I
NANO*1000 [0.50] Introduction to Nanoscience
PHYS*1000 [0.50] An Introduction to Mechanics

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/revisedis

Semester 2 - Winter
CHEM*1050 [0.50] General Chemistry II
MATH*1210 [0.50] Calculus II
PHYS*1010 [0.50] Introductory Electricity and Magnetism
One of:
BIOL*1070 [0.50] Discovering Biodiversity

BIOL*1080 [0.50] Biological Concepts of Health

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
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
1.00 electives*

Summer Semester
COOP*1000 [0.00] Co-op Work Term I

Semester 5 - Fall
One of:
CHEM*3860 [0.50] Quantum Chemistry
PHYS*3230 [0.50] Quantum Mechanics I
NANO*3500 [0.50] Thin Film Science
NANO*3600 [0.50] Computational Methods in Materials Science
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 6 - Fall
NANO*4100 [0.50] Biological Nanomaterials
2.00 electives

Semester 7 - Winter
NANO*3200 [0.50] Nanolithographic Techniques
NANO*3300 [0.50] Spectroscopy of Nanomaterials
NANO*3700 [0.50] Introduction to Quantum Computing
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 8
NANO*4200 [0.50] Topics in Nanomaterials
2.00 electives
* If a student wants to take PHYS*3230 in semester 5, then they must select PHYS*3230 and PHYS*3240 as electives in semester 4.

Note: 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 Winter, Fall, and Summer semesters. Therefore, one of the summer work terms could be missed and the student would still graduate successfully. It is only required to complete 4 of the 5 listed work terms. A report is required for each work term completed, even when all 5 are done. Contact the co-op faculty advisor for further details.

Selection of electives is subject to the following rules:
1. The student must select at least 1.00 credits in Arts or Social Science.
2. The program must include at least 6.00 science credits at the 3000 and 4000 level of which at least 2.00 must be at the 4000 level.
3. In semesters 7 and 8, the student must select to do either NANO*4900 or NANO*4910.

In completing the science requirements for the degree, some suggested complementary areas of focus are found under the listing for the regular program.

Neuroscience (NEUR)
Office of the Associate Dean, B.Sc. Program

Minor (Honours Program)
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
1 of:
PSYC*2010 [0.50] Quantification in Psychology
STAT*2040 [0.50] Statistics I
and at least 0.50 credits from:
BIOM*2000 [0.50] Concepts in Human Physiology for B.A. students only
BIOM*3200 [1.00] Mammalian Physiology
HK*3940 [1.25] Human Physiology
ZOO*3200 [0.50] Comparative Animal Physiology I

Last Revision: March 15, 2014
Nutritional and Nutraceutical Sciences (NANS)

Department of Human Health and Nutritional Sciences, College of Biological Science

The Nutritional and Nutraceutical Sciences major is concerned with understanding the contribution of food, beverage and nutritional supplement consumption to growth, development of optimal biological function, maintenance of health, and treatment of disease. If lacking the fundamentals of word processing, spreadsheet 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 total of 20.00 credits is required, including 2.00 credits from Arts and Social Sciences courses. A minor in Nutritional and Nutraceutical Sciences (NANS) requires 5.00 credits as follows:

**Semester 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1070</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 arts or social sciences 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>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1070</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 arts or social sciences electives

**Semester 3**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2580</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 electives or restricted electives

**Semester 4**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOEC*2560</td>
<td>0.50</td>
</tr>
<tr>
<td>MCB*2050</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 electives or restricted electives

**Semester 5**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK*3940</td>
<td>1.25</td>
</tr>
<tr>
<td>NUTR*3330</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*3390</td>
<td>0.75</td>
</tr>
</tbody>
</table>

**Semester 6**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3090</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*4090</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*4320</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*4330</td>
<td>0.75</td>
</tr>
</tbody>
</table>

A minimum of 0.25 electives or restricted electives

**Semester 7**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR*4210</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*4510</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.50 electives or restricted electives

**Semester 8**

2.50 electives or restricted electives

**Restricted Electives**

1.00 credits from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK*4230</td>
<td>0.50</td>
</tr>
<tr>
<td>HK*4360</td>
<td>1.00</td>
</tr>
<tr>
<td>HK*4371/2</td>
<td>1.00</td>
</tr>
<tr>
<td>HK*4460</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*3330</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*4090</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
</tr>
</tbody>
</table>

At least 0.50 credits from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC*3080</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*3200</td>
<td>1.00</td>
</tr>
<tr>
<td>HK*3940</td>
<td>1.25</td>
</tr>
<tr>
<td>ZOO*3200</td>
<td>0.50</td>
</tr>
</tbody>
</table>

and 2.00 credits from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC*3170</td>
<td>0.50</td>
</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*4560</td>
<td>0.50</td>
</tr>
<tr>
<td>EQN*4020</td>
<td>0.50</td>
</tr>
<tr>
<td>FOOD*2010</td>
<td>0.50</td>
</tr>
<tr>
<td>HK*4230</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Minor (Honours Program)**

A minor in Nutritional and Nutraceutical Sciences (NANS) requires 5.00 credits as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*2580</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*3330</td>
<td>0.50</td>
</tr>
<tr>
<td>NUTR*4090</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2040</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)]

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
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
CHEM*1040 [0.50] General Chemistry I
One of:
PHYS*1000 [0.50] An Introduction to Mechanics
PHYS*1070 [0.50] Introductory Physics for Life Sciences
PHYS*1080 [0.50] Physics for Life Sciences
One of:
MATH*1080 [0.50] Elements of Calculus I
MATH*1200 [0.50] Calculus 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 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
CHEM*1050 [0.50] General Chemistry II
One of:
PHYS*1010 [0.50] Introductory Electricity and Magnetism
PHYS*1080 [0.50] Physics for Life Sciences
PHYS*1130 [0.50] Physics with Applications
One of:
MATH*1210 [0.50] Calculus II
MATH*2080 [0.50] Elements of Calculus 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
1.50 science electives from the approved list of acceptable B.Sc. science electives* 0.50 electives
One of:
CIS*1200 [0.50] Introduction to Computing
CIS*1500 [0.50] Introduction to Programming
OR
STAT*2040 [0.50] Statistics I

Semester 4
1.50 science electives from the approved list of B.Sc. science electives* 0.50 electives
One of:
CIS*1200 [0.50] Introduction to Computing
CIS*1500 [0.50] Introduction to Programming
(if a statistics course is chosen in Semester 3)
OR
STAT*2040 [0.50] Statistics I
(if a computing course is chosen in Semester 3)

Semesters 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 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 and/or Social Science courses.

Semester 1*
CHEM*1040 [0.50] General Chemistry I
CIS*1500 [0.50] Introduction to Programming
MATH*1200 [0.50] Calculus I
PHYS*1000 [0.50] An Introduction to Mechanics
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 2*
CHEM*1050 [0.50] General Chemistry II
MATH*1210 [0.50] Calculus II
PHYS*1010 [0.50] Introductory Electricity and Magnetism
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*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:
STAT*2040 [0.50] Statistics I
0.50 Arts electives
0.50 Social Science electives

Semester 4
MATH*2170 [0.50] Differential Equations I
PHYS*2260 [0.50] Quantum Physics
PHYS*2450 [0.75] Mechanics II
PHYS*2470 [0.75] Electricity and Magnetism II
One of:
STAT*2040 [0.50] Statistics I
STAT*2120 [0.50] Probability and Statistics for Engineers
0.50 electives

Semester 5
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
0.50 electives

Semester 6
PHYS*3220 [0.50] Waves and Optics
PHYS*3400 [0.50] Advanced Mechanics
PHYS*3510 [0.50] Intermediate Laboratory

Last Revision: March 15, 2014
2011-2012 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 - Winter
CHEM*1050 [0.50] General Chemistry II
MATH*1210 [0.50] Calculus II
PHYS*1010 [0.50] Introductory Electricity and Magnetism
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 - 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*2000 [0.50] Set Theory
STAT*2040 [0.50] Statistics I
0.50 Arts or Social Science electives*

Semester 4 - Winter
MATH*2170 [0.50] Differential Equations I
PHYS*2260 [0.50] Quantum Physics
PHYS*2450 [0.75] Mechanics II
PHYS*2470 [0.75] Electricity and Magnetism II
One of:
STAT*2040 [0.50] Statistics I
STAT*2120 [0.50] Probability and Statistics for Engineers
0.50 electives

Summer Semester
COOP*1000 [0.00] Co-op Work Term I ++

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
0.50 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 +
PHYS*4180 [0.50] Advanced Electromagnetic Theory
One of:
CIS*2520 [0.50] Data Structures
One of:
MATH*2000 [0.50] Set Theory
0.50 electives**
One of:
PHYS*4240 [0.50] Statistical Physics II
0.50 electives**

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 ++
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
GEOG*3420 [0.50] Remote Sensing of the Environment
GEOL*3060 [0.50] Groundwater
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*3420 [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

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*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

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.

Electives and Restricted Elective (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 research projects which will count towards restricted elective requirements in an area of emphasis:

   AGR*4450 [1.00] Research Project I
   AGR*4460 [1.00] Research Project II
   or
   IBIO*4500 [0.75] Research in Integrative Biology I
   IBIO*4510 [0.75] Research in Integrative Biology II
   or
   MCB*4500 [1.00] Research Project in Molecular & Cellular Biology I
   MCB*4510 [1.00] Research Project in Molecular & Cellular Biology II

Area of Emphasis

Applied Plant Science (APSC)

SOIL*2010 [0.50] Soil Science
CROP*4240 [0.50] Weed Science
ENVB*3120 [0.50] Plant Pathology
ENVB*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*2040 [0.50] Plant Health and the Environment
ENVB*3030 [0.50] Pesticides and the Environment
ENVB*3160 [0.50] Management of Turfgrass Diseases **
ENVB*4070 [0.50] Biological and Cultural Control of Plant Diseases **
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*3230 [0.50] Plant Propagation
HORT*3270 [0.50] Medicinal Plants
HORT*3280 [0.50] Greenhouse Production
HORT*3350 [0.50] Woody Plant Production and Culture
HORT*3340 [0.50] Wine-Grape Culture
HORT*3510 [0.50] Vegetable Production
HORT*4200 [0.50] Turf, the Environment and Society **
### 2011-2012 Undergraduate Calendar

**Botany (BOT)**

**Plant Functional Ecology**

**Plant Genetics**

**Molecular and Cellular Aspects of Plant Microbe Interactions**

**Molecular and Cellular Aspects of Plant Development**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT*3050</td>
<td>Plant Functional Ecology</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*3100</td>
<td>Plant Genetics</td>
<td>0.50</td>
</tr>
<tr>
<td>PBIO*4000</td>
<td>Molecular and Cellular Aspects of Plant Microbe Interactions</td>
<td>0.50</td>
</tr>
<tr>
<td>PBIO*4150</td>
<td>Molecular and Cellular Aspects of Plant Development</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Plant Biotechnology (PBTC)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBG*3100</td>
<td>Plant Genetics</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*3350</td>
<td>Laboratory Methods in Molecular Biology I</td>
<td>0.75</td>
</tr>
<tr>
<td>PBIO*3750</td>
<td>Plant Tissue Culture</td>
<td>0.50</td>
</tr>
<tr>
<td>PBIO*4750</td>
<td>Genetic Engineering of Plants</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Plant Environmental Science (PESC)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT*3050</td>
<td>Plant Functional Ecology</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVB*2040</td>
<td>Plant Health and the Environment</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVB*4780</td>
<td>Forest Ecology</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*2480</td>
<td>Mapping and GIS</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Biostatistics and the Life Sciences**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBIO*4100</td>
<td>Applied Bioinformatics</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*3660</td>
<td>Genomics</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*4160</td>
<td>Plant Breeding</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*4300</td>
<td>Plant Molecular Genetics</td>
<td>0.50</td>
</tr>
<tr>
<td>MCB*4010</td>
<td>Advanced Cell Biology</td>
<td>0.50</td>
</tr>
<tr>
<td>MICR*2420</td>
<td>Introduction to Microbiology</td>
<td>0.50</td>
</tr>
<tr>
<td>MICR*3220</td>
<td>Plant Microbiology</td>
<td>0.50</td>
</tr>
<tr>
<td>PBIO*3110</td>
<td>Plant Tissue Culture</td>
<td>0.50</td>
</tr>
<tr>
<td>PBIO*4150</td>
<td>Molecular and Cellular Aspects of Plant Development</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**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: Brain & Cognition (PBC)

**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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*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>MATH*1080</td>
<td>Elements of Calculus I</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1070</td>
<td>Introductory Physics for Life Sciences</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Honours Level Courses**

One of:

- PSYC*1100| Principles of Behaviour        | 0.50    |
- PSYC*1200| Dynamics of Behaviour          | 0.50    |

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>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>General Chemistry II</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>Physics for Life Sciences</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Honours Level Courses**

One of:

- BIOL*1070| Discovering Biodiversity       | 0.50    |
- BIOL*1080| Biological Concepts of Health  | 0.50    |

### Semester 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*2330</td>
<td>Principles of Learning</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*2410</td>
<td>Behavioural Neuroscience I</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### General View

- Let's choose to study [Advanced Turfgrass Science](#) and [Soil Management](#). The former provides a practical understanding of turfgrass management, while the latter focuses on soil conservation techniques. Both are essential for a career in agricultural sciences.
- The course [Soil and Water Conservation](#) is crucial for understanding how to manage water resources sustainably. This course is offered in both the fall and spring semesters.
- [Advanced Landscape Ecology](#) is an excellent choice for those interested in the ecological aspects of landscape design. This course is available in spring semester.
- For students interested in plant health, [Plant Breeding](#) is highly recommended. It covers the genetic and molecular basis of plant breeding, essential for developing disease-resistant crop varieties.

### Additional Courses

- [Principles of Sensation and Perception](#) delves into the sensory pathways and perception mechanisms in the nervous system, important for fields like psychology and neuroscience.
- [Statistics I](#) is a fundamental course for students planning to conduct research, providing a solid foundation in statistical methods and analysis.
- [Molecular and Cellular Aspects of Plant Development](#) offers insight into the molecular mechanisms underlying plant development, crucial for students interested in biotechnology and plant biology.

### Notes

- Students must complete a minimum of 2.00 credits from the list of courses indicated.
- Some courses require prerequisites, as indicated by [Preceptorial Notes](#).
- Students are advised to consult the [Bachelor of Science (B.Sc.) Schedule of Studies](#) for detailed course descriptions and prerequisites.

---

**Last Revision: March 15, 2014**

---

X. Degree Programs, Bachelor of Science (B.Sc.)
Selection of electives should take into consideration the prerequisites for preferred courses.

**Semester 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*2040</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*2360</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 Psychology core (PSYC*2330, PSYC*2390, PSYC*2410, PSYC*2650)

**Semester 5**

2.50 electives or restricted electives

Students contemplating graduate studies should see Graduate Studies Advisory Note below.

**Semester 6**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*3250</td>
<td>0.50</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*3030</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3100</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3330</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3340</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3370</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3380</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3410</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3440</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3850</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*3900</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*4050</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*4470</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*4500</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*4510</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*4600</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*4750</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*4870</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*4880</td>
<td>1.00</td>
</tr>
<tr>
<td>PSYC*4900</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**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 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/Approval/Electives.html

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 5.00 psychology credits as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*1100</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*1200</td>
<td>0.50</td>
</tr>
<tr>
<td>PSYC*2360</td>
<td>0.50</td>
</tr>
</tbody>
</table>

2.00 credits from 2000 level psychology core courses selected as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*2330</td>
<td>0.50</td>
<td>Principles of Learning</td>
</tr>
<tr>
<td>PSYC*2390</td>
<td>0.50</td>
<td>Principles of Sensation and Perception</td>
</tr>
<tr>
<td>PSYC*2410</td>
<td>0.50</td>
<td>Behavioural Neuroscience I</td>
</tr>
<tr>
<td>PSYC*2650</td>
<td>0.50</td>
<td>Cognitive Psychology</td>
</tr>
</tbody>
</table>

b. 0.50 credits from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*2310</td>
<td>0.50</td>
<td>Introduction to Social Psychology</td>
</tr>
<tr>
<td>PSYC*2450</td>
<td>0.50</td>
<td>Introduction to Developmental Psychology</td>
</tr>
<tr>
<td>PSYC*2740</td>
<td>0.50</td>
<td>Personality</td>
</tr>
</tbody>
</table>

1.00 credits from courses in Restricted Electives list above

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*2010</td>
<td>0.50</td>
<td>Quantification in Psychology</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
</tbody>
</table>

**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 course (0.50 credits) in Mathematics or Statistics at the 3000 level or above.

**Major (Honours Program)**

**Semester 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>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>MATH*1200</td>
<td>0.50</td>
<td>Calculus I</td>
</tr>
<tr>
<td>PHYS*1000</td>
<td>0.50</td>
<td>An Introduction to Mechanics</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</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

**Semester 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</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>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
</tbody>
</table>

0.50 Arts or Social Science electives*

**Semester 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2200</td>
<td>0.50</td>
<td>Advanced Calculus I</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2150</td>
<td>0.50</td>
<td>Applied Matrix Algebra</td>
</tr>
<tr>
<td>MATH*2160</td>
<td>0.50</td>
<td>Linear Algebra I</td>
</tr>
</tbody>
</table>

0.50 Arts or Social Science electives

0.50 electives**

**Semester 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2130</td>
<td>0.50</td>
<td>Numerical Methods</td>
</tr>
<tr>
<td>STAT*2050</td>
<td>0.50</td>
<td>Statistics II</td>
</tr>
</tbody>
</table>

1.50 electives**

**Semester 5**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT*3100</td>
<td>0.50</td>
<td>Introductory Mathematical Statistics I</td>
</tr>
<tr>
<td>STAT*3240</td>
<td>0.50</td>
<td>Applied Regression Analysis</td>
</tr>
<tr>
<td>STAT*3320</td>
<td>0.50</td>
<td>Sampling Theory with Application</td>
</tr>
</tbody>
</table>

1.00 electives**

**Semester 6**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT*3110</td>
<td>0.50</td>
<td>Introductory Mathematical Statistics II</td>
</tr>
<tr>
<td>STAT*3210</td>
<td>0.50</td>
<td>Experimental Design</td>
</tr>
</tbody>
</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:
- MATH*1080 [0.50] Elements of Calculus I
- MATH*1200 [0.50] Calculus I

One of:
- MATH*1210 [0.50] Calculus II
- MATH*2080 [0.50] Elements of Calculus II

One of:
- MATH*2150 [0.50] Applied Matrix Algebra
- MATH*2160 [0.50] Linear Algebra 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*3240 [0.50] Applied Regression Analysis

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**
- CHEM*1040 [0.50] General Chemistry I
- CIS*1500 [0.50] Introduction to Programming
- MATH*1200 [0.50] Calculus I
- PHYS*1000 [0.50] An Introduction to Mechanics

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 2**
- CHEM*1050 [0.50] General Chemistry II
- MATH*1210 [0.50] Calculus II
- PHYS*1010 [0.50] Introductory Electricity and Magnetism

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

Note: Students who have taken physics courses other than PHYS*1000 in Semester 1 and PHYS*1010 in Semester 2, may proceed to semester 3 with the permission of the Department of Physics.

**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

One of:
- STAT*2040 [0.50] Statistics I

0.50 Arts electives
0.50 Social Science electives

**Semester 4**
- MATH*2170 [0.50] Differential Equations I
- PHYS*2260 [0.50] Quantum Physics
- PHYS*2450 [0.75] Mechanics II
- PHYS*2470 [0.75] Electricity and Magnetism II

One of:*  
- MATH*2210 [0.50] Advanced Calculus II

0.50 electives

**Semester 5**
- 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

0.50 electives

**Semester 6**
- MATH*3260 [0.50] Complex Analysis
- PHYS*3220 [0.50] Waves and Optics
- PHYS*3400 [0.50] Advanced Mechanics
- PHYS*3510 [0.50] Intermediate Laboratory

**Semester 7**
- PHYS*4120 [0.50] Atomic and Molecular Physics
- PHYS*4180 [0.50] Advanced Electromagnetic Theory
- PHYS*4240 [0.50] Statistical Physics II

Two of:
- PHYS*4001 [0.50] Research in Physics
- PHYS*4500 [0.50] Advanced Physics Laboratory

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.

**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**
- 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: 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
- CHEM*1050 [0.50] General Chemistry II
- MATH*1080 [0.50] Introductory Electricity and Magnetism
- PHYS*1000 [0.50] Elements of Calculus 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.uoguelph.ca/revisedss

**Semester 3**
- BIOL*2580 [0.50] Introduction to Biochemistry
- CHEM*2480 [0.50] Analytical Chemistry I
- MBG*2040 [0.50] Foundations in Molecular Biology and Genetics
- TOX*2000 [0.50] Principles of Toxicology

0.50 Arts or Social Science electives

**Semester 4**
- CHEM*2700 [0.50] Organic Chemistry I
- MCB*2050 [0.50] Molecular Biology of the Cell
<table>
<thead>
<tr>
<th>Semester 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3560</td>
</tr>
<tr>
<td>CHEM*3750</td>
</tr>
<tr>
<td>TOX*3300</td>
</tr>
<tr>
<td>1.00 credits from:</td>
</tr>
<tr>
<td>BIOM*3200</td>
</tr>
<tr>
<td>ZOO*3200</td>
</tr>
</tbody>
</table>

0.50 electives or restricted electives*

<table>
<thead>
<tr>
<th>Semester 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3090</td>
</tr>
<tr>
<td>ENVB*3030</td>
</tr>
<tr>
<td>PATH*3610</td>
</tr>
</tbody>
</table>

One of:
| ZOO*3210 | [0.50] Comparative Animal Physiology II (if ZOO*3200 selected in semester 5) |

0.50 electives or restricted electives* (if BIOM*3200 selected in semester 5)

<table>
<thead>
<tr>
<th>Semester 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBG*3350</td>
</tr>
<tr>
<td>TOX*4000</td>
</tr>
<tr>
<td>TOX*4590</td>
</tr>
</tbody>
</table>

0.75 electives or restricted electives*

<table>
<thead>
<tr>
<th>Semester 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOX*4100</td>
</tr>
<tr>
<td>TOX*4200</td>
</tr>
<tr>
<td>TOX*4550</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOX*4900</td>
<td>1.00</td>
</tr>
<tr>
<td>TOX*4910</td>
<td>1.00</td>
</tr>
</tbody>
</table>

List B - Biomedical

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM*4070</td>
<td>[0.75] Biomedical Histology</td>
</tr>
<tr>
<td>BIOM*4090</td>
<td>[0.50] Pharmacology</td>
</tr>
<tr>
<td>MBG*4270</td>
<td>[0.50] DNA Replication, Recombination and Repair</td>
</tr>
<tr>
<td>MCB*3320</td>
<td>[0.50] Immunology</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>[0.50] Fundamentals of Nutrition</td>
</tr>
<tr>
<td>NUTR*4510</td>
<td>[0.50] Toxicology, Nutrition and Food</td>
</tr>
</tbody>
</table>

List C - Environmental

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2060</td>
<td>[0.50] Ecology</td>
</tr>
<tr>
<td>BIOL*3450</td>
<td>[0.50] Introduction to Aquatic Environments</td>
</tr>
<tr>
<td>BIOL*4350</td>
<td>[0.50] Biology of Polluted Waters</td>
</tr>
<tr>
<td>BOT*2100</td>
<td>[0.50] Life Strategies of Plants</td>
</tr>
<tr>
<td>ENVB*4240</td>
<td>[0.50] Biological Activity of Pesticides</td>
</tr>
<tr>
<td>MCB*3320</td>
<td>[0.50] Immunology</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>[0.50] Fundamentals of Nutrition</td>
</tr>
</tbody>
</table>

List D - Toxicology (Co-op) (TOX:C)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOX*2000</td>
<td>[0.00] Co-op Work Term I</td>
</tr>
<tr>
<td>TOX*4900</td>
<td>[1.00] Toxicology Research Project I</td>
</tr>
<tr>
<td>TOX*4910</td>
<td>[1.00] Toxicology Research Project II</td>
</tr>
</tbody>
</table>

List E - Biomedical

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM*4070</td>
<td>[0.75] Biomedical Histology</td>
</tr>
<tr>
<td>BIOM*4090</td>
<td>[0.50] Pharmacology</td>
</tr>
<tr>
<td>MBG*4270</td>
<td>[0.50] DNA Replication, Recombination and Repair</td>
</tr>
<tr>
<td>MCB*3320</td>
<td>[0.50] Immunology</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>[0.50] Fundamentals of Nutrition</td>
</tr>
<tr>
<td>NUTR*4510</td>
<td>[0.50] Toxicology, Nutrition and Food</td>
</tr>
</tbody>
</table>

List F - Environmental

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2060</td>
<td>[0.50] Ecology</td>
</tr>
<tr>
<td>BIOL*3450</td>
<td>[0.50] Introduction to Aquatic Environments</td>
</tr>
<tr>
<td>BIOL*4350</td>
<td>[0.50] Biology of Polluted Waters</td>
</tr>
<tr>
<td>BOT*2100</td>
<td>[0.50] Life Strategies of Plants</td>
</tr>
<tr>
<td>ENVB*4240</td>
<td>[0.50] Biological Activity of Pesticides</td>
</tr>
<tr>
<td>MCB*3320</td>
<td>[0.50] Immunology</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>[0.50] Fundamentals of Nutrition</td>
</tr>
<tr>
<td>NUTR*4510</td>
<td>[0.50] Toxicology, Nutrition and Food</td>
</tr>
</tbody>
</table>

**Students are advised to pay particular attention to pre-requisite requirements when choosing individual courses, and seek advice as needed.
Wild Life Biology (WLB)

Department of Integrative Biology, College of Biological Science

The Major in Wild Life Biology provides exposure to the ecological principles upon which the scientific management of wild life is based. This major prepares students for post-graduate work in ecology and management of wild life 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</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>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>
</tr>
</tbody>
</table>

### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
<td>Biological Concepts of Health</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>PHYS*1080</td>
<td>0.50</td>
<td>Physics for Life Sciences</td>
</tr>
<tr>
<td></td>
<td>0.50</td>
<td>Arts or Social Science electives</td>
</tr>
</tbody>
</table>

### Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2580</td>
<td>0.50</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
<tr>
<td>ZOO*2090</td>
<td>0.50</td>
<td>Vertebrate Structure and Function</td>
</tr>
<tr>
<td>ZOO*2100</td>
<td>0.50</td>
<td>Developmental Biology</td>
</tr>
<tr>
<td></td>
<td>0.50</td>
<td>Electives</td>
</tr>
</tbody>
</table>

### Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>0.50</td>
<td>Fundamentals of Nutrition</td>
</tr>
<tr>
<td>ZOO*2700</td>
<td>0.50</td>
<td>Invertebrate Morphology &amp; Evolution</td>
</tr>
<tr>
<td></td>
<td>1.00</td>
<td>Electives</td>
</tr>
</tbody>
</table>

### Semester 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3010</td>
<td>0.50</td>
<td>Laboratory and Field Work in Ecology</td>
</tr>
<tr>
<td>BIOL*3110</td>
<td>0.50</td>
<td>Population Ecology</td>
</tr>
<tr>
<td>BIOL*3400</td>
<td>0.50</td>
<td>Evolution</td>
</tr>
<tr>
<td>BOT*3050</td>
<td>0.50</td>
<td>Plant Functional Ecology</td>
</tr>
<tr>
<td>ZOO*3200</td>
<td>0.50</td>
<td>Comparative Animal Physiology I</td>
</tr>
<tr>
<td></td>
<td>1.00</td>
<td>Electives</td>
</tr>
</tbody>
</table>

### Semester 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC*3180</td>
<td>0.50</td>
<td>Wildlife Nutrition</td>
</tr>
<tr>
<td>BIOL*3120</td>
<td>0.50</td>
<td>Community Ecology</td>
</tr>
<tr>
<td>ZOO*3210</td>
<td>0.50</td>
<td>Comparative Animal Physiology II</td>
</tr>
<tr>
<td></td>
<td>1.00</td>
<td>Electives</td>
</tr>
</tbody>
</table>

### Semester 7

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*4110</td>
<td>0.75</td>
<td>Ecological Methods</td>
</tr>
<tr>
<td>BIOL*4150</td>
<td>0.50</td>
<td>Wildlife Conservation and Management</td>
</tr>
<tr>
<td>ZOO*4070</td>
<td>0.50</td>
<td>Animal Behaviour</td>
</tr>
<tr>
<td>ZOO*4910</td>
<td>0.50</td>
<td>Integrative Vertebrate Biology</td>
</tr>
<tr>
<td></td>
<td>0.25</td>
<td>Electives</td>
</tr>
</tbody>
</table>

### Semester 8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1200</td>
<td>0.75</td>
<td>Computer Science</td>
</tr>
<tr>
<td></td>
<td>2.50</td>
<td>Electives</td>
</tr>
</tbody>
</table>

**Other field or research courses with approval of faculty advisor.**

### Electives must include:

1. A minimum of 0.50 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

2. At least 1.00 Arts or Social Science electives.

### 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 post-graduate work in zoology and other life 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. At least 6.00 science credits must be at the 3000 or 4000 level, 2.00 of which must be at the 4000 level.

7.50 credits are electives, including at least 1.00 Arts or Social Science electives and 0.75 credit from restricted electives. BIOL*2250 is strongly recommended if independent research project courses are anticipated in semesters 7 and/or 8. CIS*1200 is recommended for those needing to improve their computer skills.

### Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</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>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>
</tr>
</tbody>
</table>

### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
<td>Biological Concepts of Health</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>PHYS*1080</td>
<td>0.50</td>
<td>Physics for Life Sciences</td>
</tr>
<tr>
<td></td>
<td>0.50</td>
<td>Arts or Social Science electives</td>
</tr>
</tbody>
</table>

### Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2580</td>
<td>0.50</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
<tr>
<td>ZOO*2090</td>
<td>0.50</td>
<td>Vertebrate Structure and Function</td>
</tr>
<tr>
<td>ZOO*2100</td>
<td>0.50</td>
<td>Developmental Biology</td>
</tr>
<tr>
<td></td>
<td>0.50</td>
<td>Electives</td>
</tr>
</tbody>
</table>

### Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>NUTR*3210</td>
<td>0.50</td>
<td>Fundamentals of Nutrition</td>
</tr>
<tr>
<td>ZOO*2700</td>
<td>0.50</td>
<td>Invertebrate Morphology &amp; Evolution</td>
</tr>
<tr>
<td></td>
<td>1.00</td>
<td>Electives</td>
</tr>
</tbody>
</table>

### Semester 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3010</td>
<td>0.50</td>
<td>Laboratory and Field Work in Ecology</td>
</tr>
<tr>
<td>BIOL*3110</td>
<td>0.50</td>
<td>Population Ecology</td>
</tr>
<tr>
<td>BIOL*3400</td>
<td>0.50</td>
<td>Evolution</td>
</tr>
<tr>
<td>BOT*3050</td>
<td>0.50</td>
<td>Plant Functional Ecology</td>
</tr>
<tr>
<td>ZOO*3200</td>
<td>0.50</td>
<td>Comparative Animal Physiology I</td>
</tr>
<tr>
<td></td>
<td>1.00</td>
<td>Electives</td>
</tr>
</tbody>
</table>

### Semester 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC*3180</td>
<td>0.50</td>
<td>Wildlife Nutrition</td>
</tr>
<tr>
<td>BIOL*3120</td>
<td>0.50</td>
<td>Community Ecology</td>
</tr>
<tr>
<td>ZOO*3210</td>
<td>0.50</td>
<td>Comparative Animal Physiology II</td>
</tr>
<tr>
<td></td>
<td>1.00</td>
<td>Electives</td>
</tr>
</tbody>
</table>

### Semester 7

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*4110</td>
<td>0.75</td>
<td>Ecological Methods</td>
</tr>
<tr>
<td>BIOL*4150</td>
<td>0.50</td>
<td>Wildlife Conservation and Management</td>
</tr>
<tr>
<td>ZOO*4070</td>
<td>0.50</td>
<td>Animal Behaviour</td>
</tr>
<tr>
<td>ZOO*4910</td>
<td>0.50</td>
<td>Integrative Vertebrate Biology</td>
</tr>
<tr>
<td></td>
<td>0.25</td>
<td>Electives</td>
</tr>
</tbody>
</table>

### Semester 8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1200</td>
<td>0.75</td>
<td>Computer Science</td>
</tr>
<tr>
<td></td>
<td>2.50</td>
<td>Electives</td>
</tr>
</tbody>
</table>

**Suggested electives list available from faculty advisors**

**BIOL*2250 is strongly recommended if independent research project courses are anticipated in semester 7 and/or 8**

***A minimum of 0.75 credits from these courses may be taken as an alternative to BIOL*4110 in semester 7:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*4140</td>
<td>0.75</td>
<td>Field Ecology</td>
</tr>
<tr>
<td>BIOL*4610</td>
<td>0.75</td>
<td>Arctic Ecology</td>
</tr>
<tr>
<td>BIOL*4700</td>
<td>0.50</td>
<td>Field Biology</td>
</tr>
<tr>
<td>BIOL*4710</td>
<td>0.25</td>
<td>Field Biology</td>
</tr>
<tr>
<td>BIOL*4800</td>
<td>0.50</td>
<td>Field Biology</td>
</tr>
<tr>
<td>BIOL*4810</td>
<td>0.25</td>
<td>Field Biology</td>
</tr>
<tr>
<td>IBIO*4500</td>
<td>0.75</td>
<td>Research in Integrative Biology I</td>
</tr>
<tr>
<td>IBIO*4510</td>
<td>0.75</td>
<td>Research in Integrative Biology II</td>
</tr>
<tr>
<td>IBIO*4521/2</td>
<td>2.00</td>
<td>Thesis in Integrative Biology</td>
</tr>
</tbody>
</table>

2011-2012 Undergraduate Calendar

Last Revision: March 15, 2014
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
- 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*4170 [0.50] Experimental Comparative Animal Physiology
- ZOO*4300 [0.75] Marine Biology and Oceanography
- Other field or research courses with approval of faculty advisor.

**Minor (Honours Program)**

Students in programs other than Zoology, Wildlife Biology, Marine and Freshwater Biology and Ecology 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:

- BIOL*3110 [0.50] Population Ecology
- BIOL*3120 [0.50] Community Ecology
- BIOL*3400 [0.50] Evolution
- ZOO*2090 [0.50] Vertebrate Structure and Function
- ZOO*2100 [0.50] Developmental Biology
- ZOO*2700 [0.50] Invertebrate Morphology & Evolution
- ZOO*3000 [0.50] Comparative Histology
- ZOO*3200 [0.50] Comparative Animal Physiology I
- ZOO*3210 [0.50] Comparative Animal Physiology II
- ZOO*3700 [0.50] Integrative Biology of Invertebrates
- ZOO*4070 [0.50] Animal Behaviour
- ZOO*4330 [0.50] Biology of Fishes
- ZOO*4910 [0.50] Integrative Vertebrate Biology
- 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

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)

Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*1100</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1070</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Introduction to the Agrifood Systems
Discovering Biodiversity
General Chemistry I
Introductory Microeconomics
Elements of Calculus I

Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*1250</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1080</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*1090</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Agrifood System Trends & Issues
Biological Concepts of Health
Introduction to Molecular and Cellular Biology
General Chemistry II

Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*2320</td>
<td>0.50</td>
</tr>
<tr>
<td>AGR*2350</td>
<td>0.50</td>
</tr>
<tr>
<td>AGR*2400</td>
<td>0.50</td>
</tr>
<tr>
<td>AGR*2470</td>
<td>0.50</td>
</tr>
<tr>
<td>NRS*3000</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Soils in Agroecosystems
Animal Production Systems, Health and Industry
Economics of the Canadian Food System
Introduction to Plant Agriculture
Environmental Issues in Agriculture and Landscape Management
Statistics I

Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FARE*2700</td>
<td>0.50</td>
</tr>
<tr>
<td>FOOD*3090</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*3400</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Survey of Natural Resource Economics
Food Science and Human Nutrition
Sustainable Communities

Semester 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDRD*3400</td>
<td>0.50</td>
</tr>
</tbody>
</table>

2.00 electives

Semester 7 & 8

Students must choose either Option A or B in Semester 7 and 8

Option A

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*4500</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Agrifood Industry Problem-Solving
4.50 electives

Option B

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR*4450</td>
<td>1.00</td>
</tr>
<tr>
<td>AGR*4460</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Research Project I
Research Project II
3.00 electives

Restricted Electives

1. 2 of the following Restricted Electives are required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*2580</td>
<td>0.50</td>
</tr>
<tr>
<td>BOT*2100</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*1100</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2310</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
</tr>
<tr>
<td>NRS*2120</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Introduction to Biochemistry
Life Strategies of Plants
Introductory Macroeconomics
Intermediate Microeconomics
Foundations in Molecular Biology and Genetics
Introduction to Environmental Stewardship

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 course (0.50 credits) at the 2000 level or above from the College of Arts or College of Social and Applied Human Sciences.

Suggested Electives in Agricultural Sciences and Related Disciplines

Students who wish to concentrate in particular areas of Agricultural Sciences should consider selecting one of the following course groups.

Students should note that some suggested electives (marked by asterisks**) require other courses as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.

Agricultural Land Resources

General Recommendations:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDRD*3450</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*2480</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOL*3060</td>
<td>0.50</td>
</tr>
<tr>
<td>MET*2020</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Watershed Planning Practice
Mapping and GIS
Groundwater
Agrometeorology

Office of Registrarial Services. Students should consult the D.V.M. Section of the calendar. 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.
INTRODUCTION TO ENVIRONMENTAL STEWARDSHIP

AGROFORESTRY SYSTEMS

GEOG*3020 [0.50] Global Environmental Change

MGC*2510 [0.50] Glacial Geology

MGC*2520 [0.50] Meteorology and Climatology

MGC*2530 [0.50] Microclimatology

MGC*4210 [0.50] Atmospheric Experimentation and Instrumentation

NUTRITION MANAGEMENT:

GEOG*2200 [0.50] Glacial Geology

SOIL*3060 [0.50] Environmental Soil Chemistry

SOIL*3070 [0.50] Environmental Soil Physics

SOIL*3220 [0.50] Environmental Soil Biology

SIO*4130 [0.50] Soil and Nutrient Management

SIO*4140 [0.50] Soil and Nutrient Management

AGROFORESTRY:

BOTT*3050 [0.50] Plant Functional Ecology

ENVB*2030 [0.50] Current Issues in Forest Science

ENVB*2040 [0.50] Plant Health and the Environment

ENVB*2100 [0.50] Problem-Solving in Environmental Biology

ENVB*3320 [0.50] Agroforestry Systems **

ENVB*3520 [0.50] Forest Health and Disease **

ENVB*3720 [0.50] Forest Biodiversity **

ENVB*3330 [0.50] Ecosystem Processes and Applications **

ENVB*4780 [0.50] Forest Ecology **

HORT*3230 [0.50] Plant Propagation

NRS*2120 [0.50] Introduction to Environmental Stewardship

PBIO*4000 [0.50] Soil Plant Relationships

SOIL*4090 [0.50] Soil Management

SIO*4130 [0.50] Soil and Nutrient Management

COMMUNICATION, ORGANIZATIONS AND DEVELOPMENT:

EDRD*2020 [0.50] Interpersonal Communication

EDRD*3000 [0.50] Program Development and Evaluation

EDRD*3120 [0.50] Educational Communication

EDRD*3140 [0.50] Organizational Communication

EDRD*4120 [0.50] Leadership Development in Small Organizations

COMMUNICATION: PROCESS AND PRODUCTS:

EDRD*3050 [0.50] Agricultural Communication I

EDRD*3160 [0.50] International Communication

EDRD*4020 [0.50] Rural Extension in Change and Development

EDRD*4060 [0.50] Agricultural Communication II

RURAL ORGANIZATIONS AND COMMUNITY DEVELOPMENT:

ANTH*2660 [0.50] Contemporary Native Peoples of Canada **

LARC*2820 [0.50] Urban and Regional Planning

MCS*1000 [0.50] Introductory Marketing

MCS*2600 [0.50] Fundamentals of Consumer Behaviour **

SOC*2080 [0.50] Rural Sociology **

SOC*2280 [0.50] Society and Environment **

INTERNATIONAL AGRICULTURE:

AGR*2500 [0.50] Field Course in International Agriculture

CROP*2110 [0.50] Crop Ecology

EDRD*3160 [0.50] International Communication

EDRD*4020 [0.50] Rural Extension in Change and Development

FARE*1300 [0.50] Poverty, Food & Hunger

FA*4210 [0.50] World Agriculture and Economic Development

HORT*4380 [0.50] Tropical and Sub-Tropical Crops

TROPICAL AGROFORESTIES:

PBIO*4100 [0.50] Soil Plant Relationships

SOIL*3080 [0.50] Soil and Water Conservation

SOIL*4090 [0.50] Soil Management

SIO*4130 [0.50] Soil and Nutrient Management

INTERNATIONAL AGRIBUSINESS AND POLICY:

ECO*2410 [0.50] Intermediate Macroeconomics

FA*2410 [0.50] Agrifood Markets and Policy

FA*4000 [0.50] Agricultural and Food Policy **

PLANT PROTECTION:

CROP*4240 [0.50] Weed Science

ENVB*2040 [0.50] Plant Health and the Environment

ENVB*3030 [0.50] Pesticides and the Environment

ENVB*3040 [0.50] Natural Chemicals in the Environment

ENVB*3090 [0.50] Insect Diversity and Biology

ENVB*3210 [0.50] Plant Pathology

ENVB*3250 [0.50] Forest Health and Disease **

ENVB*4070 [0.50] Biological and Cultural Control of Plant Diseases

ENVB*4100 [0.50] Integrated Management of Invasive Insect Pests **

ENVB*4130 [0.50] Chemical Ecology: Principles & Practice **

MICR*3220 [0.50] Plant Microbiology **

PBIO*4000 [0.50] Molecular and Cellular Aspects of Plant-Microbe Interactions **

Agriculture (AGR)

OAC Dean's Office

MINOR (HONOURS PROGRAM)

The requirement of 5.00 credits for the minor is divided into 2 groups of courses, required courses and restricted electives. Students should 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*1250 [0.50] Agrifood System Trends & Issues

Three of:

AGR*2230 [0.50] Soils in Agroecosystems

AGR*2250 [0.50] Animal Production Systems, Health and Industry

AGR*2400 [0.50] Economics of the Canadian Food System

AGR*2470 [0.50] Introduction to Plant Agriculture

AGR*2500 [0.50] Field Course in International Agriculture

EDRD*3400 [0.50] Sustainable Communities

FOOD*3090 [0.50] Food Science and Human Nutrition

3.00 credits from the following Elective List:

Note: At least 0.50 credits 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

CROP*4240 [0.50] Weed Science

HORT*4380 [0.50] Tropical and Sub-Tropical Crops

PBIO*3110 [0.50] Crop Physiology

ANIMAL SCIENCE:

ANSC*2330 [0.50] Horse Management Science

ANSC*2430 [0.50] Structure of Farm Animals

ANSC*3080 [0.50] Agricultural Animal Physiology

ANSC*3210 [0.50] Principles of Animal Care and Welfare

ANSC*4050 [0.50] Biotechnology in Animal Science

MBG*3090 [0.50] Applied Animal Genetics

MBG*2040 [0.50] Foundations in Molecular Biology and Genetics

ENVIRONMENTAL BIOLOGY:

ENVB*2040 [0.50] Plant Health and the Environment

ENVB*3030 [0.50] Pesticides and the Environment

ENVB*3040 [0.50] Natural Chemicals in the Environment

ENVB*3170 [0.50] Plant Pathology

ENVB*4100 [0.50] Integrated Management of Invasive Insect Pests

ENVB*4240 [0.50] Biological Activity of Pesticides

HORTICULTURAL SCIENCE:

HORT*3230 [0.50] Plant Propagation

HORT*3280 [0.50] Greenhouse Production

HORT*3340 [0.50] Culture of Plants

HORT*4300 [0.50] Postharvest Physiology

PBIO*3110 [0.50] Crop Physiology

PBIO*3750 [0.50] Plant Tissue Culture

ORGANIC AGRICULTURE:

CROP*2110 [0.50] Crop Ecology

OAGR*2300 [0.50] Organic Marketing

OAGR*2050 [0.50] Gateway to Organic Agriculture

OAGR*3030 [0.50] Tutorials in Organic Agriculture I

OAGR*3130 [0.50] Tutorials in Organic Agriculture II
Option A:
Semester 7
POP*M4230 [0.50] Animal Health
One of:
2.00 electives or restricted electives (odd-numbered years)
OR
2.50 electives (odd-numbered years)∗
* Note: POP*M4230 needs to be taken in either Semester 5 or 7 as course is offered in even-numbered years only.
Semester 8
AGR*4500 [0.50] Agrifood Industry Problem-Solving
2.00 electives or restricted electives

Option B
Semester 7
AGR*4450 [1.00] Research Project I
POP*M4230 [0.50] Animal Health
1.00 electives or restricted electives
* Note: POP*M4230 needs to be taken in either Semester 5 or 7 as course is offered in even-numbered years only.

Semester 8
AGR*4460 [1.00] Research Project II
1.50 electives or restricted electives

Restricted Electives
1. A minimum of 3.00 credits. 1.00 credits required from each of Animal Breeding, Animal Nutrition and Animal Physiology and Behaviour:

Animal Breeding:
ANSC*4020 [0.50] Genetics of Companion Animals
ANSC*4050 [0.50] Biotechnology in Animal Science
MBG*3060 [0.50] Quantitative Genetics
MBG*4030 [0.50] Animal Breeding Methods

Animal Nutrition:
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*4470 [0.50] Animal Metabolism
ANSC*4560 [0.50] Pet Nutrition
EQN*4020 [0.50] Feeding the Performance Horse

Animal Physiology and Behaviour:
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
EQN*3050 [0.50] Equine Exercise Physiology

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 course (0.50 credits) at the 2000 level or above from any department may be used to fulfill this requirement.

Crop, Horticulture and Turfgrass Sciences (CHAT)
One of:
- BOT*3310 [0.50] Plant Growth and Development (in semester 6)
- PBIO*3110 [0.50] Crop Physiology
1.00 to 2.00 electives or restricted electives

Semester 6
- BOT*3310 [0.50] Plant Growth and Development (if PBIO*3110 is not taken in semester 5)
- EDRD*3400 [0.50] Sustainable Communities
1.50 to 2.00 electives or restricted electives

Semester 7 & 8
Students must choose either Option A or B in Semester 7 and 8

Option A: Semester 7
One of:
- PBIO*4100 [0.50] Soil Plant Relationships (in semester 8)
- SOIL*4090 [0.50] Soil Management
- SOIL*4130 [0.50] Soil and Nutrient Management
2.00 to 2.50 electives or restricted electives

Semester 8
- AGR*4500 [0.50] Agrifood Industry Problem-Solving
- PBIO*4100 [0.50] Soil Plant Relationships (if 1 of SOIL*4090 or SOIL*4130 is not taken in semester 7)
1.50 to 2.00 electives or restricted electives

Option B: Semester 7
- AGR*4450 [1.00] Research Project I
One of:
- PBIO*4100 [0.50] Soil Plant Relationships (in semester 8)
- SOIL*4090 [0.50] Soil Management
- SOIL*4130 [0.50] Soil and Nutrient Management
1.00 to 1.50 electives or restricted electives

Semester 8
- AGR*4460 [1.00] Research Project II
- PBIO*4100 [0.50] Soil Plant Relationships (if 1 of SOIL*4090 or SOIL*4130 is not taken in semester 7)
1.00 to 1.50 electives or restricted electives

Restricted Electives
1. 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. Those credits at the 3000 level or above selected to satisfy Item # 3 below will be applied to satisfy this minimum 7.00 credit requirement. Referring to the Program Counsellor for the list of agricultural science courses.
2. A humanities or social science course (0.50 credits) at the 2000 level or above from the College of Arts or College of Social and Applied Human Sciences.
3. Six courses (3.00 credits) from the courses listed below without regard to group. Students who wish to concentrate in particular areas of plant agriculture should consider selecting courses from one of the following three course groups.

Note: Some courses listed below may have prerequisites not included among the mandatory courses for the CHATS major listed above. Students are advised to pay particular attention to prerequisite requirements when choosing individual courses, and seek advice as needed.

1. Crop Science
Choose three courses (1.50 credits) among the following:
- CROP*3300 [0.50] Grain Crops
- CROP*3310 [0.50] Protein and Oils Crops
- CROP*3340 [0.50] Managed Grasslands
- CROP*4220 [0.50] Cropping Systems
- CROP*4240 [0.50] Weed Science
- HORT*4380 [0.50] Tropical and Sub-Tropical Crops
- OAGR*2050 [0.50] Gateway to Organic Agriculture

Choose three courses (1.50 credits) among the following:
- AGR*2350 [0.50] Animal Production Systems, Health and Industry
- ENVB*3321 [0.50] Plant Pathology
- ENVB*4100 [0.50] Integrated Management of Invasive Insect Pests
- MBG*3100 [0.50] Plant Genetics
- MBG*4160 [0.50] Plant Breeding
- MET*2020 [0.50] Agronometerology
- NRS*3000 [0.50] Environmental Issues in Agriculture and Landscape Management
- OAGR*4160 [0.50] Design of Organic Production Systems
- PBIO*3370 [0.50] Plant Tissue Culture
- PBIO*4100 [0.50] Soil Plant Relationships
- PBIO*4750 [0.50] Genetic Engineering of Plants
- SOIL*3200 [0.50] Environmental Soil Biology

2. Horticultural Science
Choose two courses (1.00 credits) among the following:
- HORT*2450 [0.50] Introduction to Turfgrass Science
- HORT*3010 [0.50] Annual, Perennial and Indoor Plants - Identification and Use
- HORT*3280 [0.50] Greenhouse Production
- HORT*3350 [0.50] Woody Plant Production and Culture
- HORT*3510 [0.50] Vegetable Production
- HORT*4420 [0.50] Fruit Crops

Choose two courses (1.00 credits) among the following:
- BOT*3340 [0.50] Plant Anatomy
- HORT*3230 [0.50] Plant Propagation
- HORT*4300 [0.50] Postharvest Physiology
- MBG*3100 [0.50] Plant Genetics
- MBG*4160 [0.50] Plant Breeding
- PBIO*3750 [0.50] Plant Tissue Culture
- PBIO*4100 [0.50] Soil Plant Relationships
- PBIO*4750 [0.50] Genetic Engineering of Plants

Choose two courses (1.00 credits) among the following:
- CROP*4240 [0.50] Weed Science
- ENVB*3360 [0.50] Management of Turfgrass Diseases
- 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

Business Electives
Students who wish to add business courses to their program are advised to select ACCT*2220 and ACCT*2230 plus two courses (1.00 credits) as electives from the following list:

- BUS*2090 [0.50] Individuals and Groups in Organizations
- BUS*3000 [0.50] Human Resources Management
- FARE*3310 [0.50] Operations Management
- FARE*3400 [0.50] Agribusiness Financial Management
- FARE*4220 [0.50] Advanced Agribusiness Management
- FARE*4240 [0.50] Futures and Options Markets
- FARE*4370 [0.50] Food & Agri Marketing Management

Organic Agriculture (OAGR)

Department of Plant Agriculture and School of Environmental Sciences

Semester 1
- AGR*1100 [0.50] Introduction to the Agrifood Systems
- BIOL*1070 [0.50] Discovering Biodiversity
- CHEM*1040 [0.50] General Chemistry I
- ECON*1050 [0.50] Introductory Microeconomics
- MATH*1080 [0.50] Elements of Calculus I

Semester 2
- AGR*1250 [0.50] Agrifood System Trends & Issues
- 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

Semester 3
- AGR*2320 [0.50] Soils in Agroecosystems
- AGR*2350 [0.50] Animal Production Systems, Health and Industry
- AGR*2400 [0.50] Economics of the Canadian Food System
- AGR*2470 [0.50] Introduction to Plant Agriculture
- OAGR*2050 [0.50] Gateway to Organic Agriculture

Semester 4
- STAT*2040 [0.50] Statistics I

Semester 5
- AGR*3500 [0.50] Experiential Education I
- BOT*2100 [0.50] Life Strategies of Plants
- FOOD*3090 [0.50] Food Science and Human Nutrition
- OAGR*3303 [0.50] Tutorials in Organic Agriculture I

Semester 6
- EDRD*3400 [0.50] Sustainable Communities
- OAGR*3310 [0.50] Tutorials in Organic Agriculture II
- SOIL*3200 [0.50] Environmental Soil Biology
1.00 electives or restricted electives

**Semester 7**

OAGR*2300 [0.50] Organic Marketing
OAGR*4160 [0.50] Design of Organic Production Systems

1.50 electives or restricted electives

**Semester 8**

AGR*4500 [0.50] Agrifood Industry Problem-Solving
OAGR*4180 [0.50] Social Issues in Organic Agriculture

1.50 electives or restricted electives

**Restricted Electives**

1. A minimum of 2.00 credits from the list of restricted electives below:

   **Note:** Some courses listed below may have prerequisites not included among the mandatory courses for the OAGR major listed above. Students are advised to pay particular attention to prerequisite requirements when choosing individual courses, and seek advice as needed.

   - ANSC*3210 [0.50] Principles of Animal Care and Welfare
   - CROP*2110 [0.50] Crop Ecology
   - CROP*4240 [0.50] Weed Science
   - ENVB*2040 [0.50] Plant Health and the Environment
   - ENVB*3210 [0.50] Plant Pathology
   - ENVB*4100 [0.50] Integrated Management of Invasive Insect Pests
   - GEOG*3320 [0.50] Agriculture and Society
   - NRS*3000 [0.50] Environmental Issues in Agriculture and Landscape Management
   - PBIO*4100 [0.50] Soil Plant Relationships
   - PHIL*2070 [0.50] Philosophy of the Environment
   - SOAN*4220 [0.50] Gender and Change in Rural Canada
   - SOC*3380 [0.50] Society and Nature
   - SOC*4210 [0.50] Advanced Topics in Rural Sociology

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 course (0.50 credits) at the 2000 level or above from the College of Arts or College of Social and Applied Human Sciences.

**Note:** In this major there are fees charged to cover partial costs of some field trips. Students in need of financial assistance should approach the Chair of the department.
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 honours 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>
<td>Off</td>
</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 (Optional)</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. 5.00 Environmental Sciences Core
3. 7.00 Environmental Sciences 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 no specific subject requirements for the elective courses, however, you may NOT select the following: BIOL*1500, BOT*1200, CHEM*1100, CIS*1000, GEOL*1100, MET*1000, MICR*1020, MBG*1000, PHYS*1100.

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>
<th>Description</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>ENVS*1020</td>
<td>0.50</td>
<td>Introduction to Environmental Sciences</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>0.50</td>
<td>Physics for Life Sciences</td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
<td>Introductory Microeconomics</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>

One of:

- BIOL*1080  0.50 Biological Concepts of Health
- BIOL*1090  0.50 Introduction to Molecular and Cellular Biology

**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>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2060</td>
<td>0.50</td>
<td>Ecology</td>
</tr>
<tr>
<td>ENVS*2150</td>
<td>0.50</td>
<td>Terrestrial Systems</td>
</tr>
<tr>
<td>ENVS*3150</td>
<td>0.50</td>
<td>Aquatic Systems</td>
</tr>
<tr>
<td>ENVS*4011/2</td>
<td>0.50</td>
<td>Project in Environmental Sciences</td>
</tr>
<tr>
<td>ENVS*4300</td>
<td>0.50</td>
<td>Environmental Law &amp; Regulation</td>
</tr>
<tr>
<td>MET*2030</td>
<td>0.50</td>
<td>Meteorology and Climatology</td>
</tr>
<tr>
<td>PHIL*2070</td>
<td>0.50</td>
<td>Philosophy of the Environment</td>
</tr>
</tbody>
</table>

One of:

- ECON*2100  0.50 Economic Growth and Environmental Quality
- FARE*2700  0.50 Survey of Natural Resource Economics

One of:

- BIOL*4040  0.50 Natural Resources Policy
- GEOG*3210  0.50 Management of the Biophysical Environment
- POLS*3370  0.50 Environmental Politics and Governance

One of:

- ECON*2740  0.50 Economic Statistics
- GEOG*2460  0.50 Analysis in Geography
- STAT*2040  0.50 Statistics I

**Note:** the statistics course required is prescribed by the student's choice of major.

**Environmental Sciences Majors**

- Earth and Atmospheric Science
- Ecology
- Environmental Biology
- Environmental Economics and Policy
- Environmental Geography
- Natural Resources Management

Requirements for each of these majors are described in the detailed schedules of studies below.

**Earth and Atmospheric Science (EAAS)**

**School of Environmental Sciences, Ontario Agricultural College**

**Major**

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.

In this major there are fees charged to cover partial costs of some field trips. Students in need of financial assistance should approach the Chair of the department offering the course.

**Semester 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</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>ENVS*1020</td>
<td>0.50</td>
<td>Introduction to Environmental Sciences</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>0.50</td>
<td>Physics for Life Sciences</td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
<td>Introductory Microeconomics</td>
</tr>
</tbody>
</table>
List D - Atmosphere

MET*3050 [0.50] Microclimatology
MET*4210 [0.50] Atmospheric Experimentation and Instrumentation

Earth and Atmospheric Science (EAAS:C)

School of Environmental Sciences, Ontario Agricultural College

Major

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.

In this major there are fees charged to cover partial costs of some field trips. Students in need of financial assistance should approach the Chair of the department offering the course.

Semester 1 - Fall

BIOL*1070 [0.50] Discovering Biodiversity
CHEM*1040 [0.50] General Chemistry I
ENVS*1020 [0.50] Introduction to Environmental Sciences
MATH*1080 [0.50] Elements of Calculus I
PHYS*1080 [0.50] Physics for Life Sciences

Semester 2 - Winter

CHEM*1050 [0.50] General Chemistry II
COOP*1100 [0.00] Introduction to Co-operative Education
ENVS*1050 [0.50] Introductory Microeconomics
GEOG*1300 [0.50] Introduction to the Biophysical Environment
PHYS*1130 [0.50] Physics with Applications

Semester 3 - Fall

ENVS*2150 [0.50] Terrestrial Systems
GEOL*1050 [0.50] Geology and the Environment
MET*2030 [0.50] Meteorology and Climatology
STAT*2040 [0.50] Statistics I

Semester 4 - Winter

ENVS*2100 [0.50] Economic Growth and Environmental Quality
FARE*2700 [0.50] Survey of Natural Resource Economics

Winter Semester

COOP*1000 [0.00] Co-op Work Term I

Semester 4 - Summer

COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter

ENVS*3150 [0.50] Aquatic Systems
GEOG*3420 [0.50] Remote Sensing of the Environment
PHIL*2070 [0.50] Philosophy of the Environment

Semester 6 - Fall

ENVS*4012 [0.50] Project in Environmental Sciences
ENVS*4300 [0.50] Environmental Law & Regulation

Semester 7 - Winter

ENVS*4012 [0.50] Project in Environmental Sciences

Fall Semester

COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall

ENVS*4011 [0.00] Project in Environmental Sciences

Semester 7 - Winter

ENVS*4012 [0.50] Project in Environmental Sciences

Summer Semester (Optional)

COOP*4000 [0.00] Co-op Work Term IV
### Restricted Electives

Students must choose one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO*L3250</td>
<td>Field Methods in Geosciences</td>
<td>0.50</td>
</tr>
<tr>
<td>MET*L4210</td>
<td>Atmospheric Experimentation and Instrumentation</td>
<td>0.50</td>
</tr>
<tr>
<td>SOIL*L4250</td>
<td>Soils in the Landscape</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Students in the Earth and Atmospheric Science major are required to choose 3.50 credits from the following lists. Students are encouraged to seek advice on their choices and are reminded that 6.00 credits of the B.Sc.(Env.) degree must be at the 3000–4000 level. With prior approval, students may be able to use courses not on this list towards their Earth and Atmospheric Science restricted electives.

#### List A - Environmental Geology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO*L2020</td>
<td>Stratigraphy</td>
<td>0.50</td>
</tr>
<tr>
<td>GEO*L2200</td>
<td>Glacial Geology</td>
<td>0.50</td>
</tr>
<tr>
<td>GEO*L3190</td>
<td>Environmental Water Chemistry</td>
<td>0.50</td>
</tr>
<tr>
<td>GEO*L4090</td>
<td>Sedimentology</td>
<td>0.50</td>
</tr>
<tr>
<td>GEO*L4130</td>
<td>Clays and Humic Chemistry</td>
<td>0.50</td>
</tr>
<tr>
<td>GEO*L4240</td>
<td>Geomicrobiology</td>
<td>0.50</td>
</tr>
</tbody>
</table>

#### List B - Soil Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIBIO*L4100</td>
<td>Soil Plant Relationships</td>
<td>0.50</td>
</tr>
<tr>
<td>SOIL*L3060</td>
<td>Environmental Soil Chemistry</td>
<td>0.50</td>
</tr>
<tr>
<td>SOIL*L3070</td>
<td>Environmental Soil Physics</td>
<td>0.50</td>
</tr>
<tr>
<td>SOIL*L3080</td>
<td>Soil and Water Conservation</td>
<td>0.50</td>
</tr>
<tr>
<td>SOIL*L3200</td>
<td>Environmental Soil Biology</td>
<td>0.50</td>
</tr>
<tr>
<td>SOIL*L4090</td>
<td>Soil Management</td>
<td>0.50</td>
</tr>
</tbody>
</table>

#### List C - Water

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*L2550</td>
<td>Water Management</td>
<td>0.50</td>
</tr>
<tr>
<td>ENGG*L3650</td>
<td>Hydrology</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*L4150</td>
<td>Sedimentary Processes</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*L3190</td>
<td>Environmental Water Chemistry</td>
<td>0.50</td>
</tr>
<tr>
<td>SOIL*L3080</td>
<td>Soil and Water Conservation</td>
<td>0.50</td>
</tr>
</tbody>
</table>

#### List D - Atmosphere

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET*L3050</td>
<td>Microclimatology</td>
<td>0.50</td>
</tr>
<tr>
<td>MET*L4210</td>
<td>Atmospheric Experimentation and Instrumentation</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### Ecology (ECOL)

#### College of Biological Science

#### Major

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.

#### Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*L1070</td>
<td>Discovering Biodiversity</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*L1040</td>
<td>General Chemistry I</td>
<td>0.50</td>
</tr>
<tr>
<td>ENV*S1020</td>
<td>Introduction to Environmental Sciences</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*L1080</td>
<td>Elements of Calculus I</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*L1080</td>
<td>Physics for Life Sciences</td>
<td>0.50</td>
</tr>
</tbody>
</table>

#### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*L1050</td>
<td>General Chemistry II</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*L1050</td>
<td>Introductory Microeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*L1300</td>
<td>Introduction to the Biophysical Environment</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*L1130</td>
<td>Physics with Applications</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- BIOL*L1080: Biological Concepts of Health
- BIOL*L1090: Introduction to Molecular and Cellular Biology

Note: ECOL students are required to take BIOL*L1090 in semester 3 if not taken in semester 2.

#### Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV*S2150</td>
<td>Terrestrial Systems</td>
<td>0.50</td>
</tr>
<tr>
<td>MET*L2030</td>
<td>Meteorology and Climatology</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*L2040</td>
<td>Statistics I</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.00 electives or restricted electives

Note: ECOL students are required to take BIOL*L1090 in semester 3 if not taken in semester 2.

#### Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*L2850</td>
<td>Introduction to Biochemistry</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*L3110</td>
<td>Population Ecology</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*L2040</td>
<td>Foundations in Molecular Biology and Genetics</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*L2050</td>
<td>Statistics II</td>
<td>0.50</td>
</tr>
</tbody>
</table>

0.50 electives or restricted electives

#### Semester 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*L3010</td>
<td>Laboratory and Field Work in Ecology</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- BOT*L2100: Life Strategies of Plants
- ZOO*L3200: Comparative Animal Physiology I

### Ecology (ECOL:C)

#### College of Biological Science

#### Major

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.

#### Semester 1 - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*L1070</td>
<td>Discovering Biodiversity</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*L1040</td>
<td>General Chemistry I</td>
<td>0.50</td>
</tr>
<tr>
<td>ENV*S1020</td>
<td>Introduction to Environmental Sciences</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*L1080</td>
<td>Elements of Calculus I</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*L1080</td>
<td>Physics for Life Sciences</td>
<td>0.50</td>
</tr>
</tbody>
</table>

#### Semester 2 - Winter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*L1050</td>
<td>General Chemistry II</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*L1050</td>
<td>Introductory Microeconomics</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*L1300</td>
<td>Introduction to the Biophysical Environment</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*L1130</td>
<td>Physics with Applications</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- BIOL*L1080: Biological Concepts of Health
- BIOL*L1090: Introduction to Molecular and Cellular Biology

Note: ECOL students are required to take BIOL*L1090 in semester 3 if not taken in semester 2.

#### Semester 3 - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV*S2150</td>
<td>Terrestrial Systems</td>
<td>0.50</td>
</tr>
<tr>
<td>MET*L2030</td>
<td>Meteorology and Climatology</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*L2040</td>
<td>Statistics I</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.00 electives or restricted electives

Note: ECOL students are required to take BIOL*L1090 in semester 3 if not taken in semester 2.

#### Winter Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*L1000</td>
<td>Co-op Work Term I</td>
<td>0.00</td>
</tr>
</tbody>
</table>

#### Semester 4 - Summer

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*L2850</td>
<td>Introduction to Biochemistry</td>
<td>0.50</td>
</tr>
<tr>
<td>PHIL*L2070</td>
<td>Philosophy of the Environment</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.50 electives or restricted electives
### Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*2000</td>
<td>0.00</td>
<td>Co-op Work Term II</td>
</tr>
</tbody>
</table>

### Semester 5 - Winter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3110</td>
<td>0.50</td>
<td>Population Ecology</td>
</tr>
<tr>
<td>ENVS*3150</td>
<td>0.50</td>
<td>Aquatic Systems</td>
</tr>
<tr>
<td>STAT*2050</td>
<td>0.50</td>
<td>Statistics II</td>
</tr>
</tbody>
</table>

### Summer Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*3000</td>
<td>0.00</td>
<td>Co-op Work Term III</td>
</tr>
</tbody>
</table>

### Semester 6 - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3010</td>
<td>0.50</td>
<td>Laboratory and Field Work in Ecology</td>
</tr>
<tr>
<td>ENVS*4011</td>
<td>0.00</td>
<td>Project in Environmental Sciences</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2100</td>
<td>0.50</td>
<td>Economic Growth and Environmental Quality</td>
</tr>
<tr>
<td>FARE*2700</td>
<td>0.50</td>
<td>Survey of Natural Resource Economics</td>
</tr>
</tbody>
</table>

### Semester 7 - Winter

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3120</td>
<td>0.50</td>
<td>Community Ecology</td>
</tr>
<tr>
<td>BIOL*4120</td>
<td>0.50</td>
<td>Evolutionary Ecology</td>
</tr>
<tr>
<td>ENVS*4012</td>
<td>0.50</td>
<td>Project in Environmental Sciences</td>
</tr>
</tbody>
</table>

### Summer Semester (Optional)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*4000</td>
<td>0.00</td>
<td>Co-op Work Term IV</td>
</tr>
</tbody>
</table>

### Semester 8 - Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*4110</td>
<td>0.75</td>
<td>Ecological Methods</td>
</tr>
<tr>
<td>ENVS*4300</td>
<td>0.50</td>
<td>Environmental Law &amp; Regulation</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*3210</td>
<td>0.50</td>
<td>Management of the Biophysical Environment</td>
</tr>
<tr>
<td>POLS*3370</td>
<td>0.50</td>
<td>Environmental Politics and Governance</td>
</tr>
</tbody>
</table>

### Restricted Electives

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3020</td>
<td>0.50</td>
<td>Population Genetics</td>
</tr>
<tr>
<td>BIOL*3400</td>
<td>0.50</td>
<td>Evolution</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT*2100</td>
<td>0.50</td>
<td>Life Strategies of Plants</td>
</tr>
<tr>
<td>ZOO*3200</td>
<td>0.50</td>
<td>Comparative Animal Physiology I</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT*3410</td>
<td>0.50</td>
<td>Plant Anatomy</td>
</tr>
<tr>
<td>ZOO*2090</td>
<td>0.50</td>
<td>Vertebrate Structure and Function</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS*1200</td>
<td>0.50</td>
<td>Introduction to Computing</td>
</tr>
<tr>
<td>CIS*1500</td>
<td>0.50</td>
<td>Introduction to Programming</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>
</tbody>
</table>

### Environmental Biology (ENVB)

#### School of Environmental Sciences, Ontario Agricultural College

#### Major

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.

### 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>ENVS*1020</td>
<td>0.50</td>
<td>Introduction to Environmental Sciences</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>0.50</td>
<td>Physics for Life Sciences</td>
</tr>
</tbody>
</table>

### Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
<td>Introductory Microeconomics</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>

One of:

<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>BIOL*1090</td>
<td>0.50</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
</tbody>
</table>

### Note:

ENVB students are required to take BIOL*1090 in semester 3 if not taken in semester 2.

### Semester 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*2150</td>
<td>0.50</td>
<td>Terrestrial Systems</td>
</tr>
<tr>
<td>MET*2030</td>
<td>0.50</td>
<td>Meteorology and Climatology</td>
</tr>
<tr>
<td>TOX*2000</td>
<td>0.50</td>
<td>Principles of Toxicology</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2100</td>
<td>0.50</td>
<td>Economic Growth and Environmental Quality</td>
</tr>
<tr>
<td>FARE*2700</td>
<td>0.50</td>
<td>Survey of Natural Resource Economics</td>
</tr>
</tbody>
</table>

0.50 electives or restricted electives

### Note:

ENVB students are required to take BIOL*1090 in semester 3 if not taken in semester 2.

### Semester 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*2580</td>
<td>0.50</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>BIOL*2060</td>
<td>0.50</td>
<td>Ecology</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
<td>Foundations in Molecular Biology and Genetics</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
<td>Statistics I</td>
</tr>
</tbody>
</table>

0.50 electives or restricted electives

### Semester 5

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*3210</td>
<td>0.50</td>
<td>Management of the Biophysical Environment</td>
</tr>
<tr>
<td>POLS*3370</td>
<td>0.50</td>
<td>Environmental Politics and Governance</td>
</tr>
</tbody>
</table>

2.00 electives or restricted electives

### Semester 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*3150</td>
<td>0.50</td>
<td>Aquatic Systems</td>
</tr>
<tr>
<td>PHIL*2070</td>
<td>0.50</td>
<td>Philosophy of the Environment</td>
</tr>
</tbody>
</table>

1.50 electives or restricted electives

### Semester 7

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4011</td>
<td>0.00</td>
<td>Project in Environmental Sciences</td>
</tr>
<tr>
<td>ENVS*4300</td>
<td>0.50</td>
<td>Environmental Law &amp; Regulation</td>
</tr>
</tbody>
</table>

2.00 electives or restricted electives

### Semester 8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4012</td>
<td>0.50</td>
<td>Project in Environmental Sciences</td>
</tr>
</tbody>
</table>

2.00 electives or restricted electives

### Restricted Electives

Students in the Environmental Biology major are required to choose 5.00 credits from the following list. Students are encouraged to seek advice on their choices and are reminded that 6.00 credits of the B.Sc.(Env.) degree must be at the 3000-4000 level.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3130</td>
<td>0.50</td>
<td>Conservation Biology</td>
</tr>
<tr>
<td>BIOL*3450</td>
<td>0.50</td>
<td>Introduction to Aquatic Environments</td>
</tr>
<tr>
<td>BIOL*4150</td>
<td>0.50</td>
<td>Wildlife Conservation and Management</td>
</tr>
<tr>
<td>BIOL*4350</td>
<td>0.50</td>
<td>Biology of Polluted Waters</td>
</tr>
<tr>
<td>ENVB*2030</td>
<td>0.50</td>
<td>Current Issues in Forest Science</td>
</tr>
<tr>
<td>ENVB*2040</td>
<td>0.50</td>
<td>Plant Health and the Environment</td>
</tr>
<tr>
<td>ENVB*3010</td>
<td>0.50</td>
<td>Climate Change Biology</td>
</tr>
<tr>
<td>ENVB*3030</td>
<td>0.50</td>
<td>Pesticides and the Environment</td>
</tr>
<tr>
<td>ENVB*3040</td>
<td>0.50</td>
<td>Natural Chemicals in the Environment</td>
</tr>
<tr>
<td>ENVB*3230</td>
<td>0.50</td>
<td>Agroforestry Systems</td>
</tr>
<tr>
<td>ENVB*3250</td>
<td>0.50</td>
<td>Forest Health and Disease</td>
</tr>
<tr>
<td>ENVB*3270</td>
<td>0.50</td>
<td>Forest Biodiversity</td>
</tr>
<tr>
<td>ENVB*3280</td>
<td>0.50</td>
<td>Waterborne Disease Ecology</td>
</tr>
<tr>
<td>ENVB*4020</td>
<td>0.50</td>
<td>Water Quality and Environmental Management</td>
</tr>
<tr>
<td>ENVB*4130</td>
<td>0.50</td>
<td>Chemical Ecology: Principles &amp; Practice *</td>
</tr>
<tr>
<td>ENVB*4240</td>
<td>0.50</td>
<td>Biological Activity of Pesticides</td>
</tr>
<tr>
<td>ENVB*4550</td>
<td>0.50</td>
<td>Toxicological Risk Characterization *</td>
</tr>
<tr>
<td>ENVB*4780</td>
<td>0.50</td>
<td>Forest Ecology *</td>
</tr>
<tr>
<td>ENVS*3410</td>
<td>0.50</td>
<td>Independent Research I</td>
</tr>
<tr>
<td>ENVS*3420</td>
<td>0.50</td>
<td>Independent Research II</td>
</tr>
<tr>
<td>ENVS*3430</td>
<td>1.00</td>
<td>Independent Research</td>
</tr>
<tr>
<td>ENVS*4410</td>
<td>1.00</td>
<td>Advanced Independent Research I *</td>
</tr>
<tr>
<td>ENVS*4420</td>
<td>1.00</td>
<td>Advanced Independent Research II *</td>
</tr>
<tr>
<td>ENVS*4430</td>
<td>2.00</td>
<td>Advanced Independent Research *</td>
</tr>
<tr>
<td>GEOG*3020</td>
<td>0.50</td>
<td>Global Environmental Change</td>
</tr>
<tr>
<td>GEOL*3190</td>
<td>0.50</td>
<td>Environmental Water Chemistry</td>
</tr>
<tr>
<td>MICR*4140</td>
<td>0.50</td>
<td>Soil Microbiology and Biotechnology</td>
</tr>
<tr>
<td>MICR*4180</td>
<td>0.50</td>
<td>Microbial Processes in Environmental Management</td>
</tr>
<tr>
<td>NRS*2120</td>
<td>0.50</td>
<td>Introduction to Environmental Stewardship</td>
</tr>
<tr>
<td>PHSO*4530</td>
<td>0.50</td>
<td>Environmental Pollution Stresses on Plants *</td>
</tr>
<tr>
<td>SOIL*3080</td>
<td>0.50</td>
<td>Soil and Water Conservation *</td>
</tr>
<tr>
<td>TOX*3580</td>
<td>0.50</td>
<td>Environmental Chemistry and Toxicology</td>
</tr>
</tbody>
</table>

* Note: Students should note that some restricted electives (marked by asterisks *) require other restricted electives as prerequisites. Students should consult the most recent undergraduate calendar for specific requirements.
### Environmental Biology (ENVB:C)

**School of Environmental Sciences, Ontario Agricultural College**

**Major**

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.

#### Semester 1 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1070</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*1020</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Semester 2 - Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>0.00</td>
</tr>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*1300</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- BIOL*1080 [0.50] Biological Concepts of Health
- BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

**Note:** ENVS students are required to take BIOL*1090 in semester 3 if not taken in semester 2.

#### Semester 3 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*2150</td>
<td>0.50</td>
</tr>
<tr>
<td>MET*2030</td>
<td>0.50</td>
</tr>
<tr>
<td>TOX*2000</td>
<td>0.50</td>
</tr>
</tbody>
</table>

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:** ENVS students are required to take BIOL*1090 in semester 3 if not taken in semester 2.

#### Winter Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*1000</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Semester 4 - Summer**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*2580</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*2060</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>0.50</td>
</tr>
</tbody>
</table>

1.00 electives or restricted electives

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*2000</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Semester 5 - Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*3150</td>
<td>0.50</td>
</tr>
<tr>
<td>MBG*2040</td>
<td>0.50</td>
</tr>
<tr>
<td>PHIL*2070</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- GEOG*3210 [0.50] Management of the Biophysical Environment
- POLS*3370 [0.50] Environmental Politics and Governance

0.50 electives or restricted electives

**Note:** BIOL*4040 may be substituted for GEOG*3210 or POLS*3370 and would be taken in Semester 7.

#### Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*3000</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Semester 6 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4011</td>
<td>0.00</td>
</tr>
</tbody>
</table>

2.50 electives or restricted electives

**Semester 7 - Winter**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4012</td>
<td>0.50</td>
</tr>
</tbody>
</table>

2.00 electives or restricted electives

**Summer Semester - (Optional)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*4000</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Semester 8 - Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4300</td>
<td>0.50</td>
</tr>
</tbody>
</table>

2.00 electives or restricted electives

### Restricted Electives

Students in the Environmental Biology major are required to choose 5.00 credits from the following list. Students are encouraged to seek advice on their choices and are reminded that 6.00 credits of the B.Sc.(Env.) degree must be at the 3000-4000 level.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*3310</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*3450</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOL*4150</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### Environmental Economics and Policy (EEP)

**Department of Economics and Finance, College of Management and Economics**

**Department of Food, Agricultural and Resource Economics, Ontario Agricultural College**

**Major**

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.

#### Semester 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*1070</td>
<td>0.50</td>
</tr>
<tr>
<td>CHEM*1040</td>
<td>0.50</td>
</tr>
<tr>
<td>ENVS*1020</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>COOP*1100</td>
<td>0.00</td>
</tr>
<tr>
<td>ECON*1050</td>
<td>0.50</td>
</tr>
<tr>
<td>GEOG*1300</td>
<td>0.50</td>
</tr>
<tr>
<td>PHYS*1130</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- BIOL*1080 [0.50] Biological Concepts of Health
- BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

**Note:** ENVS students are required to take BIOL*1090 in semester 3 if not taken in semester 2.

#### Winter Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COOP*1000</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Semester 3**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*2150</td>
<td>0.50</td>
</tr>
<tr>
<td>MET*2030</td>
<td>0.50</td>
</tr>
<tr>
<td>TOX*2000</td>
<td>0.50</td>
</tr>
</tbody>
</table>

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:** ENVS students are required to take BIOL*1090 in semester 3 if not taken in semester 2.

#### Semester 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2060</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2310</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2740</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Semester 5**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON*2410</td>
<td>0.50</td>
</tr>
<tr>
<td>ECON*2770</td>
<td>0.50</td>
</tr>
<tr>
<td>FARE*4290</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One of:

- GEOG*3210 [0.50] Management of the Biophysical Environment
X. Degree Programs, Bachelor of Science in Environmental Sciences [B.Sc.(Env.)]

POLS*3370 [0.50] Environmental Politics and Governance
0.50 electives or restricted electives
Note: FARE*4290 is taught in even-numbered years.
Note: BIOL*4040 may be substituted for GEOG*3210 or POLS*3370 and would be taken in Semester 8.

Semester 6
ECON*3740 [0.50] Introduction to Econometrics
ENV*3150 [0.50] Aquatic Systems
FARE*3170 [0.50] Cost-Benefit Analysis
1.00 electives or restricted electives

Semester 7
ECON*3710 [0.50] Advanced Microeconomics
ENV*4011 [0.00] Project in Environmental Sciences
ENV*4300 [0.50] Environmental Law & Regulation
1.50 electives or restricted electives

Semester 8
ECON*4930 [0.50] Environmental Economics
ENVS*4012 [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 credits additional Food, Agricultural and Resource Economics (FARE*XXXX) or Economics (ECON*XXXX). Students are encouraged to seek advice on their choices and are reminded that 6.00 credits of their B.Sc.(Env.) degree must be at the 3000 level or higher.

Environmental Economics and Policy (EEP:C)
Department of Economics and Finance, College of Management and Economics
Department of Food, Agricultural and Resource Economics, Ontario Agricultural College

Major
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.

Semester 1 - Fall
BIOL*1070 [0.50] Discovering Biodiversity
CHEM*1040 [0.50] General Chemistry I
ENVS*1020 [0.50] Introduction to Environmental Sciences
MATH*1080 [0.50] Elements of Calculus I
PHYS*1080 [0.50] Physics for Life Sciences

Semester 2 - Winter
CHEM*1050 [0.50] General Chemistry II
COOP*1100 [0.00] Introduction to Co-operative Education
ECON*1050 [0.50] Introductory Microeconomics
GEOG*1300 [0.50] Introduction to the Biophysical Environment
PHYS*1130 [0.50] Physics with Applications
One of:
BIOL*1080 [0.50] Biological Concepts of Health
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

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
MET*2030 [0.50] Meteorology and Climatology

Winter Semester
COOP*1000 [0.00] Co-op Work Term I

Semester 4 - Summer
BIOL*2060 [0.50] Ecology
ECON*2310 [0.50] Intermediate Microeconomics
ECON*2410 [0.50] Intermediate Macroeconomics
PHIL*2070 [0.50] Philosophy of the Environment
STAT*2040 [0.50] Statistics I
Note: ECON*2740 may be substituted for STAT*2040.

Fall Semester
COOP*2000 [0.00] Co-op Work Term II

Semester 5 - Winter
ECON*2770 [0.50] Introductory Mathematical Economics
ENVS*3150 [0.50] Aquatic Systems
FARE*3170 [0.50] Cost-Benefit Analysis
One of:
GEOG*3210 [0.50] Management of the Biophysical Environment

POLS*3370 [0.50] Environmental Politics and Governance
Note: BIOL*4040 may be substituted for GEOG*3210 or POLS*3370 and would be taken in Semester 7.
0.50 electives or restricted electives

Summer Semester
COOP*3000 [0.00] Co-op Work Term III

Semester 6 - Fall
ECON*3710 [0.50] Advanced Microeconomics
ENVS*4011 [0.00] Project in Environmental Sciences
FARE*4290 [0.50] Land Economics
1.50 electives or restricted electives
Note: FARE*4290 is taught in even-numbered years.

Semester 7 - Winter
ECON*4930 [0.50] Environmental Economics
ECON*3740 [0.50] Introduction to Econometrics
ENVS*4012 [0.50] Project in Environmental Sciences
FARE*4310 [0.50] Resource Economics
0.50 electives or restricted electives

Summer Semester (Optional)
COOP*4000 [0.00] Co-op Work Term IV

Semester 8 - Fall
ENVS*4300 [0.50] Environmental Law & Regulation
2.00 electives or restricted electives

Restricted Electives
Students in the Environmental Economics and Policy major are required to choose 2.50 credits additional Food, Agricultural and Resource Economics (FARE*XXXX) or Economics (ECON*XXXX). Students are encouraged to seek advice on their choices and are reminded that 6.00 credits of their B.Sc.(Env.) degree must be at the 3000 level or higher.

Environmental Geography (ENVG)
Department of Geography, College of Social and Applied Human Sciences

Major
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.

Semester 1
BIOL*1070 [0.50] Discovering Biodiversity
CHEM*1040 [0.50] General Chemistry I
ENVS*1020 [0.50] Introduction to Environmental Sciences
MATH*1080 [0.50] Elements of Calculus I
PHYS*1080 [0.50] Physics for Life Sciences

Semester 2
CHEM*1050 [0.50] General Chemistry II
COOP*1100 [0.00] Introduction to Co-operative Education
ECON*1050 [0.50] Introductory Microeconomics
GEOG*1300 [0.50] Introduction to the Biophysical Environment
PHYS*1130 [0.50] Physics with Applications
One of:
BIOL*1080 [0.50] Biological Concepts of Health
BIOL*1090 [0.50] Introduction to Molecular and Cellular Biology

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
MET*2030 [0.50] Meteorology and Climatology
One of:
ENVS*2100 [0.50] Economic Growth and Environmental Quality
FARE*2700 [0.50] Survey of Natural Resource Economics

Semester 4
ENVS*2150 [0.50] Terrestrial Systems
GEOG*2000 [0.50] Geomorphology
GEOG*2460 [0.50] Analysis in Geography
MET*2030 [0.50] Meteorology and Climatology
One of:
ENVS*2100 [0.50] Economic Growth and Environmental Quality
FARE*2700 [0.50] Survey of Natural Resource Economics

Semester 5
GEOG*3110 [0.50] Biologic and Natural Resources
GEOG*3210 [0.50] Management of the Biophysical Environment
POLS*3370 [0.50] Environmental Politics and Governance
1.00 electives or restricted electives*
Note: Environmental Geography majors are required to complete GEOG*3210 and (POLS*3370 or BIOL*4040). BIOL*4040 may be substituted for POLS*3370 and would be taken in Semester 8.

Last Revision: March 15, 2014
### Environmental Geography (ENVG:C)

**Department of Geography, College of Social and Applied Human Sciences**

#### Major

Please note that not all courses in the "One of:" options are available each semester (F, W, S). Students are strongly encouraged to seek advice from the appropriate advisor when selecting and scheduling courses. **before Semester 3.**

#### Semester 1 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>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>ENVS*1020</td>
<td>[0.50]</td>
<td>Introduction to Environmental Sciences</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>[0.50]</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>[0.50]</td>
<td>Physics for Life Sciences</td>
</tr>
</tbody>
</table>

#### Semester 2 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<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>ECON*1050</td>
<td>[0.50]</td>
<td>Introductory Microeconomics</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>
<tr>
<td>BIOL*1080</td>
<td>[0.50]</td>
<td>Biological Concepts of Health</td>
</tr>
<tr>
<td>BIOL*1090</td>
<td>[0.50]</td>
<td>Introduction to Molecular and Cellular Biology</td>
</tr>
</tbody>
</table>

#### Semester 3 - Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*2150</td>
<td>[0.50]</td>
<td>Terrestrial Systems</td>
</tr>
<tr>
<td>GEOG*2000</td>
<td>[0.50]</td>
<td>Geomorphology</td>
</tr>
<tr>
<td>GEOG*2460</td>
<td>[0.50]</td>
<td>Analysis in Geography</td>
</tr>
<tr>
<td>MET*2030</td>
<td>[0.50]</td>
<td>Meteorology and Climatology</td>
</tr>
<tr>
<td>ECON*2100</td>
<td>[0.50]</td>
<td>Economic Growth and Environmental Quality</td>
</tr>
<tr>
<td>EARE*2700</td>
<td>[0.50]</td>
<td>Survey of Natural Resource Economics</td>
</tr>
</tbody>
</table>

#### Winter 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>

#### Semester 4 - Summer

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2060</td>
<td>[0.50]</td>
<td>Ecology</td>
</tr>
<tr>
<td>GEOG*2210</td>
<td>[0.50]</td>
<td>Environment and Resources</td>
</tr>
<tr>
<td>PHIL*2070</td>
<td>[0.50]</td>
<td>Philosophy of the Environment</td>
</tr>
<tr>
<td>1.00 electives or restricted electives*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*3150</td>
<td>[0.50]</td>
<td>Aquatic Systems</td>
</tr>
<tr>
<td>GEOG*2210</td>
<td>[0.50]</td>
<td>Climate and the Biophysical Environment</td>
</tr>
<tr>
<td>GEOG*2480</td>
<td>[0.50]</td>
<td>Mapping and GIS</td>
</tr>
<tr>
<td>1.00 electives or restricted electives*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 5 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4011</td>
<td>[0.00]</td>
<td>Project in Environmental Sciences</td>
</tr>
<tr>
<td>GIOG*3110</td>
<td>[0.50]</td>
<td>Management of the Biophysical Environment</td>
</tr>
<tr>
<td>GEOG*3210</td>
<td>[0.50]</td>
<td>GIS and Spatial Analysis</td>
</tr>
<tr>
<td>POLS*3370</td>
<td>[0.50]</td>
<td>Environmental Governance</td>
</tr>
</tbody>
</table>

**Note:** Environmental Geography majors are required to complete GEOG*3210 and (POLS*3370 or BIOL*4040). BIOL*4040 may be substituted for POLS*3370 and would be taken in Semester 7.

#### Semester 7 - Winter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4012</td>
<td>[0.50]</td>
<td>Project in Environmental Sciences</td>
</tr>
<tr>
<td>GEOG*4880</td>
<td>[0.50]</td>
<td>Contemporary Geographic Thought</td>
</tr>
<tr>
<td>1.50 electives or restricted electives*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Natural Resources Management (NRM)**

**School of Environmental Sciences, Ontario Agricultural College**

#### Major

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.

In this major there are fees charged to cover partial costs of some field trips. Students in need of financial assistance should approach the Chair of the department offering the course.

#### Semester 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>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>ENVS*1020</td>
<td>[0.50]</td>
<td>Introduction to Environmental Sciences</td>
</tr>
<tr>
<td>MATH*1080</td>
<td>[0.50]</td>
<td>Elements of Calculus I</td>
</tr>
<tr>
<td>PHYS*1080</td>
<td>[0.50]</td>
<td>Physics for Life Sciences</td>
</tr>
</tbody>
</table>

#### Semester 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*1050</td>
<td>[0.50]</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>ECON*1050</td>
<td>[0.50]</td>
<td>Introductory Microeconomics</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>
<tr>
<td>BIOL*2060</td>
<td>[0.50]</td>
<td>Aquatic Systems</td>
</tr>
<tr>
<td>GEOG*2210</td>
<td>[0.50]</td>
<td>Climate and the Biophysical Environment</td>
</tr>
<tr>
<td>GEOG*2480</td>
<td>[0.50]</td>
<td>Mapping and GIS</td>
</tr>
<tr>
<td>1.00 electives or restricted electives*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*2150</td>
<td>[0.50]</td>
<td>Terrestrial Systems</td>
</tr>
<tr>
<td>MET*2030</td>
<td>[0.50]</td>
<td>Meteorology and Climatology</td>
</tr>
<tr>
<td>NRS*2120</td>
<td>[0.50]</td>
<td>Introduction to Environmental Stewardship</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>[0.50]</td>
<td>Statistics I</td>
</tr>
<tr>
<td>ECON*2100</td>
<td>[0.50]</td>
<td>Economic Growth and Environmental Quality</td>
</tr>
<tr>
<td>EARE*2700</td>
<td>[0.50]</td>
<td>Survey of Natural Resource Economics</td>
</tr>
</tbody>
</table>

**Note:** GEOG*2460 may be substituted for STAT*2040.

#### Semester 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*2060</td>
<td>[0.50]</td>
<td>Aquatic Systems</td>
</tr>
<tr>
<td>PHIL*2070</td>
<td>[0.50]</td>
<td>Philosophy of the Environment</td>
</tr>
<tr>
<td>SOIL*2010</td>
<td>[0.50]</td>
<td>Soil Science</td>
</tr>
<tr>
<td>1.00 electives or restricted electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
### Natural Resources Management (NRM:C)

**School of Environmental Sciences, Ontario Agricultural College**

**Major**

Please note that not all courses in the "One of:" options are available each semester (F, W, S). Students are encouraged to seek advice on their choices and are reminded that 6.00 credits of their B.Sc.(Env.) degree must be at the 3000 level or higher.

<table>
<thead>
<tr>
<th>Semester 5</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVB*2030 [0.50]</td>
<td>Current Issues in Forest Science</td>
<td></td>
</tr>
<tr>
<td>SOIL*3050 [0.50]</td>
<td>Land Utilization</td>
<td></td>
</tr>
<tr>
<td>SOIL*3080 [0.50]</td>
<td>Soil and Water Conservation</td>
<td></td>
</tr>
<tr>
<td>One of:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG*3210 [0.50]</td>
<td>Management of the Biophysical Environment</td>
<td></td>
</tr>
<tr>
<td>POLS*3370 [0.50]</td>
<td>Environmental Politics and Governance</td>
<td></td>
</tr>
<tr>
<td>0.50 electives or restricted electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: BIOL*4040 may be substituted for GEOG*3210 or POLS*3370 and would be taken in Semester 8.

**Semester 6**

<table>
<thead>
<tr>
<th>ENVS*3150 [0.50]</th>
<th>Aquatic Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS*3100 [0.50]</td>
<td>Resource Planning Techniques</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
</tr>
<tr>
<td>ENGG*2550 [0.50]</td>
<td>Water Management</td>
</tr>
<tr>
<td>GEOG*3610 [0.50]</td>
<td>Environmental Hydrology</td>
</tr>
<tr>
<td>GEOL*3060 [0.50]</td>
<td>Groundwater</td>
</tr>
<tr>
<td>1.00 electives or restricted electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 7**

<table>
<thead>
<tr>
<th>ENVS*4011 [0.00]</th>
<th>Project in Environmental Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4300 [0.50]</td>
<td>Environmental Law &amp; Regulation</td>
</tr>
<tr>
<td>NRS*4110 [0.50]</td>
<td>Natural Resources Management Field Camp</td>
</tr>
<tr>
<td>1.50 electives or restricted electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 8**

<table>
<thead>
<tr>
<th>BIOL*3130 [0.50]</th>
<th>Conservation Biology</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4012 [0.50]</td>
<td>Project in Environmental Sciences</td>
</tr>
<tr>
<td>1.50 electives or restricted electives</td>
<td></td>
</tr>
</tbody>
</table>

**Restricted Electives**

Students in the Natural Resources Management major are required to choose 2.50 restricted elective credits from the following list. Students are encouraged to seek advice on their choices and are reminded that 6.00 credits of their B.Sc.(Env.) degree must be at the 3000 level or higher.

<table>
<thead>
<tr>
<th>CROP*2280 [0.50]</th>
<th>Crops in Land Reclamation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVB*3000 [0.50]</td>
<td>Nature Interpretation</td>
</tr>
<tr>
<td>ENVB*3230 [0.50]</td>
<td>Agroforestry Systems</td>
</tr>
<tr>
<td>ENVB*3270 [0.50]</td>
<td>Forest Biodiversity</td>
</tr>
<tr>
<td>ENVB*4780 [0.50]</td>
<td>Forest Ecology</td>
</tr>
<tr>
<td>ENVS*3410 [0.50]</td>
<td>Independent Research I</td>
</tr>
<tr>
<td>ENVS*3420 [0.50]</td>
<td>Independent Research I *</td>
</tr>
<tr>
<td>ENVS*3430 [1.00]</td>
<td>Independent Research</td>
</tr>
<tr>
<td>ENVS*4410 [1.00]</td>
<td>Advanced Independent Research I *</td>
</tr>
<tr>
<td>ENVS*4420 [1.00]</td>
<td>Advanced Independent Research II *</td>
</tr>
<tr>
<td>ENVS*4430 [2.00]</td>
<td>Advanced Independent Research *</td>
</tr>
<tr>
<td>GEOG*2420 [0.50]</td>
<td>The Earth From Space</td>
</tr>
<tr>
<td>GEOG*3210 [0.50]</td>
<td>Management of the Biophysical Environment</td>
</tr>
<tr>
<td>GEOG*3420 [0.50]</td>
<td>Remote Sensing of the Environment</td>
</tr>
<tr>
<td>GEOG*3480 [0.50]</td>
<td>GIS and Spatial Analysis</td>
</tr>
<tr>
<td>GEOG*4230 [0.50]</td>
<td>Environmental Impact Assessment</td>
</tr>
<tr>
<td>LARC*3320 [0.50]</td>
<td>Principles of Landscape Ecology</td>
</tr>
<tr>
<td>LARC*4520 [0.50]</td>
<td>Park and Recreation Administration</td>
</tr>
<tr>
<td>MET*3050 [0.50]</td>
<td>Microclimatology</td>
</tr>
<tr>
<td>SOIL*3060 [0.50]</td>
<td>Environmental Soil Chemistry</td>
</tr>
<tr>
<td>SOIL*3070 [0.50]</td>
<td>Environmental Soil Physics</td>
</tr>
<tr>
<td>SOIL*3200 [0.50]</td>
<td>Environmental Soil Biology</td>
</tr>
<tr>
<td>0.50 electives or restricted electives</td>
<td></td>
</tr>
</tbody>
</table>

### X. Degree Programs, Bachelor of Science in Environmental Sciences [B.Sc.(Env.)]

**Semester 3 - Fall**

<table>
<thead>
<tr>
<th>ENVB*2030 [0.50]</th>
<th>Current Issues in Forest Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*2150 [0.50]</td>
<td>Terrestrial Systems</td>
</tr>
<tr>
<td>MET*2030 [0.50]</td>
<td>Meteorology and Climatology</td>
</tr>
<tr>
<td>NRS*2120 [0.50]</td>
<td>Introduction to Environmental Stewardship</td>
</tr>
<tr>
<td>STAT*2040 [0.50]</td>
<td>Statistics I</td>
</tr>
</tbody>
</table>

Note: GEOG*2460 may be substituted for STAT*2040.

**Winter Semester**

| COOP*1000 [0.00]            | Co-op Work Term I             |

**Semester 4 - Summer**

<table>
<thead>
<tr>
<th>BIOL*2060 [0.50]</th>
<th>Ecology</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL*2070 [0.50]</td>
<td>Philosophy of the Environment</td>
</tr>
<tr>
<td>1.50 electives or restricted electives</td>
<td></td>
</tr>
</tbody>
</table>

**Fall Semester**

| COOP*2000 [0.00]            | Co-op Work Term II            |

**Semester 5 - Winter**

<table>
<thead>
<tr>
<th>ENVS*3150 [0.50]</th>
<th>Aquatic Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL*2010 [0.50]</td>
<td>Soil Science</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
</tr>
<tr>
<td>ENGG*2550 [0.50]</td>
<td>Water Management</td>
</tr>
<tr>
<td>GEOG*3610 [0.50]</td>
<td>Environmental Hydrology</td>
</tr>
<tr>
<td>GEOL*3060 [0.50]</td>
<td>Groundwater</td>
</tr>
<tr>
<td>1.00 electives or restricted electives</td>
<td></td>
</tr>
</tbody>
</table>

**Summer Semester**

| COOP*3000 [0.00]            | Co-op Work Term III           |

**Semester 6 - Fall**

<table>
<thead>
<tr>
<th>ENVS*4011 [0.00]</th>
<th>Project in Environmental Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL*3050 [0.50]</td>
<td>Land Utilization</td>
</tr>
<tr>
<td>SOIL*3080 [0.50]</td>
<td>Soil and Water Conservation</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
</tr>
<tr>
<td>ENCON*2100 [0.50]</td>
<td>Economic Growth and Environmental Quality</td>
</tr>
<tr>
<td>FARE*2700 [0.50]</td>
<td>Survey of Natural Resource Economics</td>
</tr>
<tr>
<td>One of:</td>
<td></td>
</tr>
<tr>
<td>GEOG*3210 [0.50]</td>
<td>Management of the Biophysical Environment</td>
</tr>
<tr>
<td>POLS*3370 [0.50]</td>
<td>Environmental Politics and Governance</td>
</tr>
<tr>
<td>0.50 electives or restricted electives</td>
<td></td>
</tr>
</tbody>
</table>

Note: BIOL*4040 may be substituted for GEOG*3210 or POLS*3370 and would be taken in Semester 7.

**Semester 7 - Winter**

<table>
<thead>
<tr>
<th>BIOL*3130 [0.50]</th>
<th>Conservation Biology</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4012 [0.50]</td>
<td>Project in Environmental Sciences</td>
</tr>
<tr>
<td>NRS*3100 [0.50]</td>
<td>Resource Planning Techniques</td>
</tr>
<tr>
<td>1.00 electives or restricted electives</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 8 - Fall**

<table>
<thead>
<tr>
<th>ENVS*4300 [0.50]</th>
<th>Environmental Law &amp; Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS*4110 [0.50]</td>
<td>Natural Resources Management Field Camp</td>
</tr>
<tr>
<td>1.50 electives or restricted electives</td>
<td></td>
</tr>
</tbody>
</table>

**Restricted Electives**

Students in the Natural Resources Management major are required to choose 2.50 restricted elective credits from the following list. Students are encouraged to seek advice on their choices and are reminded that 6.00 credits of their B.Sc.(Env.) degree must be at the 3000 level or higher.

<table>
<thead>
<tr>
<th>CROP*2280 [0.50]</th>
<th>Crops in Land Reclamation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVB*3000 [0.50]</td>
<td>Nature Interpretation</td>
</tr>
<tr>
<td>ENVB*3230 [0.50]</td>
<td>Agroforestry Systems</td>
</tr>
<tr>
<td>ENVB*3270 [0.50]</td>
<td>Forest Biodiversity</td>
</tr>
<tr>
<td>ENVB*4780 [0.50]</td>
<td>Forest Ecology</td>
</tr>
<tr>
<td>ENVS*3410 [0.50]</td>
<td>Independent Research I</td>
</tr>
<tr>
<td>ENVS*3420 [0.50]</td>
<td>Independent Research I *</td>
</tr>
<tr>
<td>ENVS*3430 [1.00]</td>
<td>Independent Research</td>
</tr>
<tr>
<td>ENVS*4410 [1.00]</td>
<td>Advanced Independent Research I *</td>
</tr>
<tr>
<td>ENVS*4420 [1.00]</td>
<td>Advanced Independent Research II *</td>
</tr>
<tr>
<td>ENVS*4430 [2.00]</td>
<td>Advanced Independent Research *</td>
</tr>
<tr>
<td>GEOG*2420 [0.50]</td>
<td>The Earth From Space</td>
</tr>
<tr>
<td>GEOG*3210 [0.50]</td>
<td>Management of the Biophysical Environment</td>
</tr>
<tr>
<td>GEOG*3420 [0.50]</td>
<td>Remote Sensing of the Environment</td>
</tr>
<tr>
<td>GEOG*3480 [0.50]</td>
<td>GIS and Spatial Analysis</td>
</tr>
<tr>
<td>GEOG*4230 [0.50]</td>
<td>Environmental Impact Assessment</td>
</tr>
<tr>
<td>LARC*3320 [0.50]</td>
<td>Principles of Landscape Ecology</td>
</tr>
<tr>
<td>LARC*4520 [0.50]</td>
<td>Park and Recreation Administration</td>
</tr>
<tr>
<td>MET*3050 [0.50]</td>
<td>Microclimatology</td>
</tr>
<tr>
<td>SOIL*3060 [0.50]</td>
<td>Environmental Soil Chemistry</td>
</tr>
<tr>
<td>SOIL*3070 [0.50]</td>
<td>Environmental Soil Physics</td>
</tr>
<tr>
<td>SOIL*3200 [0.50]</td>
<td>Environmental Soil Biology</td>
</tr>
<tr>
<td>0.50 electives or restricted electives</td>
<td></td>
</tr>
</tbody>
</table>

Note: BIOL*4040 may be substituted for GEOG*3210 or POLS*3370 and would be taken in Semester 7.

**Summer Semester (Optional)**

| COOP*4000 [0.00]            | Co-op Work Term IV           |

**Last Revision: March 15, 2014**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG*4230</td>
<td>0.50</td>
<td>Environmental Impact Assessment</td>
</tr>
<tr>
<td>LARC*3320</td>
<td>0.50</td>
<td>Principles of Landscape Ecology</td>
</tr>
<tr>
<td>LARC*4520</td>
<td>0.50</td>
<td>Park and Recreation Administration</td>
</tr>
<tr>
<td>MET*3050</td>
<td>0.50</td>
<td>Microclimatology</td>
</tr>
<tr>
<td>SOIL*3060</td>
<td>0.50</td>
<td>Environmental Soil Chemistry</td>
</tr>
<tr>
<td>SOIL*3070</td>
<td>0.50</td>
<td>Environmental Soil Physics</td>
</tr>
<tr>
<td>SOIL*3200</td>
<td>0.50</td>
<td>Environmental Soil Biology</td>
</tr>
</tbody>
</table>
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*3000, 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 a 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 titers 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](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 PHA or PA 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**

Continuation of Study Assessment for DVM Students 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:

Continuation of Study Assessment for DVM Students 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>PA &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:

Continuation of Study Assessment for DVM Students 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:

Continuation of Study Assessment for DVM Students Repeating Phase 3

<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 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 or PHA > 50% but < 60%, will not be permitted to graduate. The Academic Review Sub-Committee will establish the appropriate remediation requirements that must be fulfilled in order for the student to obtain the standing of Eligible to Graduate. These may include repeating a component of a course, one or more entire courses, or one or more clinical rotations.

**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</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</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</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</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</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</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</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 is an experiential learning process that integrates academic study with paid work experience. Students will participate in a competitive employment process to be engaged in work terms developed and/or approved by Co-operative Education & Career Services as suitable learning experiences relevant to the students' area of academic study. A graded Co-op Work Term Report and Work Performance Evaluation will be required for each work term and will appear on the student's official transcript. 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. In addition, COOP*1100 – Introduction to Co-operative Education, a mandatory, non-credit course, is a prerequisite for the first work term.

COOP*1100 is designed to introduce students to the theory and practice of co-operative education at the University of Guelph. Students 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.

Students will learn to take full advantage of the co-op option and will obtain practice in the co-op employment process.

Admission Information

Students are admitted to a Co-operative Education program directly from high school in the Fall semester. Some programs may admit a small number of in-course students after first or second semester. Normally, students must apply before their third academic semester in order to be considered. The decision to admit an in-course student is dependent upon space in the program, the grades of the student, the approved Academic and Work Sequence, and any other information relevant to the program. The On-Campus Co-ordinator is responsible for facilitating all admission processes. Please refer to the schedule of dates in the Undergraduate Calendar for in-course application deadlines.

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% 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 will be allowed to continue in the co-op program only if their cumulative average, over 4.0 credits, is 70% or higher after two full-time 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 before their first employment process.

Co-op students must normally be registered as full-time. 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/home/gen_students.cfm](http://www.cecs.uoguelph.ca/home/gen_students.cfm).

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 transcript 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 academic transcripts.

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 an 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. 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.
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, 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 degree program or degree specialization requirements. 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, 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, please consult with the Open Learning Program Counsellor at the Office of Open Learning (ext. 56050).

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
EDRD*2020*DE [0.50] Interpersonal Communication
EDRD*3120*DE [0.50] Educational Communication
EDRD*3140*DE [0.50] Organizational Communication
EDRD*3160*DE [0.50] International Communication
EDRD*4120*DE [0.50] Leadership Development in Small Organizations

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 Faculty of Environmental Sciences. It is structured as follows, requiring six courses total, to include at least two at the 3000 or 4000 level:

Required Course
UNIV*2050*DE [0.50] Environmental Perspectives and Human Choices I

2 or 3 of the following:
BOT*2000*DE [0.50] Plants, Biology and People
ECON*1050*DE [0.50] Introductory Microeconomics
ECON*2100*DE [0.50] Economic Growth and Environmental Quality
EDRD*3500*DE [0.50] Recreation and Tourism Planning
EDRD*4500*DE [0.50] Planning Industrial Ecology: Design for Sustainability
GEOL*1100*DE [0.50] Geology of Natural Disasters
MET*1000*DE [0.50] The Atmospheric Environment
SOIL*2080*DE [0.50] Soil and Water Conservation

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 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.

Individuals interested in entering the Certificate in Food Science program should enrol in the Open Learning program through the Office of Open Learning. Post-secondary courses in microbiology and chemistry are pre-requisites for entrance into the program.

The core courses of the program cannot be used as substitutes for core courses or restricted electives in the B.Sc. Food Science Major.

Required Courses
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

For more information, please visit the website at: 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. It is comprised of five courses taken via distance education and 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.

The Certificate requires the five courses listed below:

Required Courses
ACCT*2230*DE [0.50] Management Accounting
BUS*2090*DE [0.50] Individuals and Groups in Organizations
BUS*3000*DE [0.50] Human Resources Management
HTM*2030*DE [0.50] Control Systems in the Hospitality Industry
MGMT*2150*DE [0.50] Introduction to Canadian Business Management

For more information, please visit the website at: 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 certificate program allows undergraduate students to complete both their degree program and the certificate concurrently. As well, the certificate is available to students in the Open Learning program.

The program focuses on new leadership models and practical applications in a variety of organizational settings. Five undergraduate courses are required, in addition to 120 hours of leadership practice. Students will develop an historical and theoretical understanding of leadership with particular emphasis on contemporary theories, models and research.

The program consists of two Required courses, three Elective courses chosen from the list below, and 120 hours of leadership practice, in an approved placement. Some courses require particular prerquisites; it is important to take into account the necessary prerequisites and semester offered when determining the sequence in which courses are taken. Many of the courses are offered in both on-campus and distance formats. Refer to the undergraduate calendar for specifics concerning course formats and schedule.

Students who wish to enrol in the Certificate in Leadership program should contact the Office of Open Learning at 519-767-5000. For more information, please visit the website at: [www.leadershipcertificate.com](http://www.leadershipcertificate.com/)

**Required**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HROB<em>2010</em>DE</td>
<td>Foundations of Leadership</td>
<td>0.50</td>
</tr>
<tr>
<td>HROB<em>4010</em>DE</td>
<td>Leadership Capstone</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Ethics Course Requirement (Select 0.50 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL*2120</td>
<td>Ethics</td>
<td>0.50</td>
</tr>
<tr>
<td>PHIL*2600</td>
<td>Business and Professional Ethics</td>
<td>0.50</td>
</tr>
<tr>
<td>POLS*3440</td>
<td>Corruption, Scandal and Political Ethics</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Electives (Select 1.00 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS*2090</td>
<td>Individuals and Groups in Organizations</td>
<td>0.50</td>
</tr>
<tr>
<td>BUS*3000</td>
<td>Human Resources Management</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*3140</td>
<td>Organizational Communication</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*3160</td>
<td>International Communication</td>
<td>0.50</td>
</tr>
<tr>
<td>EDRD*4120</td>
<td>Leadership Development in Small Organizations</td>
<td>0.50</td>
</tr>
<tr>
<td>HROB*4030</td>
<td>Advanced Topics In Human Resource Management</td>
<td>0.50</td>
</tr>
<tr>
<td>HROB*4100</td>
<td>Applied Research in Human Resources Management</td>
<td>1.00</td>
</tr>
<tr>
<td>MGMT*2150</td>
<td>Introduction to Canadian Business Management</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Certificate in Public Policy and Administration**

The five-course Certificate in Public Policy and Administration is designed to provide a solid foundation in key concepts and foundations of Canadian government, policy, and administration. By bringing together a number of Canadian political science and public policy courses that are currently available to both undergraduate students and open learners, 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 majoring in Public Management, Political Science and Criminal Justice and Public Policy. All six courses in this certificate are also available in distance education format. To earn the Certificate, students will be required to successfully complete five of the six courses (2.50 credits) as follows:

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*3070</td>
<td>Psychology in Human Resource Management</td>
<td>0.50</td>
</tr>
<tr>
<td>PSY*3080</td>
<td>Organizational Psychology</td>
<td>0.50</td>
</tr>
<tr>
<td>SOAN*2040</td>
<td>Globalization of Work and Organizations</td>
<td>0.50</td>
</tr>
<tr>
<td>SOAN*2120</td>
<td>Introductory Methods</td>
<td>0.50</td>
</tr>
</tbody>
</table>

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*2010 (Foundations of Leadership). For more information, please visit the website at: [www.leadershipcertificate.com](http://www.leadershipcertificate.com/)

**Certification in Scottish Studies**

Delivered through distance education, the six-course 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 six of the seven courses as follows:

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL<em>3360</em>DE</td>
<td>Scottish Literatures</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST<em>2000</em>DE</td>
<td>The British Isles, 1066-1603</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST<em>3030</em>DE</td>
<td>Celtic Britain and Ireland to 1066</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST<em>3530</em>DE</td>
<td>Celtic Britain and Ireland Since 1603</td>
<td>0.50</td>
</tr>
<tr>
<td>NRS<em>2050</em>DE</td>
<td>The Landscape of Scotland</td>
<td>0.50</td>
</tr>
</tbody>
</table>

One course from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST<em>3140</em>DE</td>
<td>Witch-hunts and Popular Culture</td>
<td>0.50</td>
</tr>
<tr>
<td>HIST<em>4050</em>DE</td>
<td>Topics in Scottish History</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Students who wish to enrol in the Certificate in Scottish Studies should contact the Open Learning program Counsellor at the Office of Open Learning (ext. 56050). For more information, please visit the website at: [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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*2080</td>
<td>Elements of Calculus II</td>
<td>0.50</td>
</tr>
<tr>
<td>MATH<em>2150</em>DE</td>
<td>Applied Matrix Algebra</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2040</td>
<td>Statistics I</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*2050</td>
<td>Statistics II</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*3100</td>
<td>Introductory Mathematical Statistics I</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*3110</td>
<td>Introductory Mathematical Statistics II</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*3210</td>
<td>Experimental Design</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*3240</td>
<td>Applied Regression Analysis</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*3320</td>
<td>Sampling Theory with Applications</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*3510</td>
<td>Environmental Risk Assessment</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*4050</td>
<td>Topics in Applied Statistics I</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*4060</td>
<td>Topics in Applied Statistics II</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*4080</td>
<td>Data Analysis</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*4350</td>
<td>Applied Multivariate Statistical Methods</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*4360</td>
<td>Applied Time Series Analysis</td>
<td>0.50</td>
</tr>
<tr>
<td>STAT*4510</td>
<td>Advanced Risk Analysis</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Co-operative Education**

The Co-operative Education option is offered in 33 majors. Co-op provides eligible students with the opportunity to alternate semesters of academic study with semesters of paid work experience. Job opportunities are across Ontario, and in some cases out-of-province or international. The work experience is related to the student's academic program and/or career objectives. Admission can occur directly into semester 1 from high school, or in-course (but not normally beyond Academic Semester 3). Co-operative Education is also available to international students.

For further details refer to information on Co-operative Education in Section X—Degree Programs. Course requirements and academic/work sequences for specific majors are listed under the appropriate degree program in Section X—Degree Programs.

**Distance Education**

The Distance Education program, administered by the Office of Open Learning, 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, videotapes, audio CDs, DVDs, CD-ROMs, etc., depending on the nature of the course. As well, most courses incorporate computer conferencing, 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.

Last Revision: March 15, 2014
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 Office of Open Learning, 160 Johnston Hall, 519-767-5000, email: info@open.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.open.uoguelph.ca.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD<em>2110</em>DE</td>
<td>Exceptional Children and Youth</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>FRHD<em>2200</em>DE</td>
<td>Infant Development</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>FRHD<em>2270</em>DE</td>
<td>Development in Early and Middle Childhood</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>FRHD<em>2280</em>DE</td>
<td>Adolescent Development</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>FRHD<em>3190</em>DE</td>
<td>Administration of Programs for Children</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>GEOG<em>1200</em>DE</td>
<td>Society and Space</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>GEOG<em>1220</em>DE</td>
<td>Human Impact on the Environment</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>GEOG<em>1300</em>DE</td>
<td>Introduction to the Biophysical Environment</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>GEOG<em>2120</em>DE</td>
<td>Environment and Resources</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>GEOG<em>2510</em>DE</td>
<td>Canada: A Regional Synthesis</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>GEOG<em>3020</em>DE</td>
<td>Global Environmental Change</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>GEOG<em>3210</em>DE</td>
<td>Management of the Biophysical Environment</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>GEOG<em>3490</em>DE</td>
<td>Tourism and Environment</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>GEOL<em>1100</em>DE</td>
<td>Principles of Geology</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>GEOL<em>2250</em>DE</td>
<td>Geology of Natural Disasters</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HISP<em>1100</em>DE</td>
<td>Introductory Spanish I</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HISP<em>1110</em>DE</td>
<td>Introductory Spanish II</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>1150</em>DE</td>
<td>The Modern World</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>2000</em>DE</td>
<td>The British Isles, 1066-1603</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>2040</em>DE</td>
<td>War and Society</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>2070</em>DE</td>
<td>World Religions in Historical Perspective</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>2250</em>DE</td>
<td>Environment and History</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>2260</em>DE</td>
<td>Religion and Society</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>2450</em>DE</td>
<td>The Practising Historian</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>2610</em>DE</td>
<td>Contemporary Canadian Issues</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>3020</em>DE</td>
<td>Sexuality and Gender in History</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>3030</em>DE</td>
<td>Celtic Britain and Ireland to 1066</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>3140</em>DE</td>
<td>Witch-hunts and Popular Culture</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>3530</em>DE</td>
<td>Celtic Britain and Ireland Since 1603</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>3540</em>DE</td>
<td>World War II</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HIST<em>4050</em>DE</td>
<td>Topics in Scottish History</td>
<td>[1.00]</td>
<td></td>
</tr>
<tr>
<td>HORT<em>1120</em>DE</td>
<td>Grape and Wine Science</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HORT<em>3430</em>DE</td>
<td>Wine-Grape Culture</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HROB<em>2100</em>DE</td>
<td>Foundations of Leadership</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HROB<em>2100</em>DE</td>
<td>Managing People in Organizations</td>
<td>[1.00]</td>
<td></td>
</tr>
<tr>
<td>HROB<em>3010</em>DE</td>
<td>Compensation Systems</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HROB<em>3030</em>DE</td>
<td>Occupational Health and Safety</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HROB<em>3070</em>DE</td>
<td>Recruitment and Selection</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HROB<em>3090</em>DE</td>
<td>Training and Development</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HROB<em>4010</em>DE</td>
<td>Leadership Capstone</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HROB<em>4060</em>DE</td>
<td>Human Resources Planning</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HTM<em>2030</em>DE</td>
<td>Control Systems in the Hospitality Industry</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HTM<em>3180</em>DE</td>
<td>Casino Operations Management</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>HTM<em>3780</em>DE</td>
<td>Economics of Food Usage</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MATH<em>1000</em>DE</td>
<td>Introductory Calculus</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MATH<em>1030</em>DE</td>
<td>Business Mathematics</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MATH<em>2150</em>DE</td>
<td>Applied Matrix Algebra</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MBG<em>3060</em>DE</td>
<td>Quantitative Genetics</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MBG<em>3090</em>DE</td>
<td>Applied Animal Genetics</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MCS<em>1000</em>DE</td>
<td>Introductory Marketing</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MCS<em>2020</em>DE</td>
<td>Marketing Information Management</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MCS<em>2100</em>DE</td>
<td>Personal Financial Management</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MCS<em>3010</em>DE</td>
<td>Quality Management</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MCS<em>3030</em>DE</td>
<td>Research Methods</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MCS<em>3040</em>DE</td>
<td>Business and Consumer Law</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MET<em>1000</em>DE</td>
<td>The Atmospheric Environment</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MGMT<em>2150</em>DE</td>
<td>Introduction to Canadian Business Management</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MBG<em>1130</em>DE</td>
<td>Introduction to Musicanship</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MBG<em>2140</em>DE</td>
<td>History of Jazz</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MBG<em>2150</em>DE</td>
<td>Music and Popular Culture</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>MUSC<em>2280</em>DE</td>
<td>Masterworks of Music</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>NRS<em>2050</em>DE</td>
<td>The Landscape of Scotland</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>NRS<em>2120</em>DE</td>
<td>Introduction to Environmental Stewardship</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>NUTR<em>1010</em>DE</td>
<td>Nutrition and Society</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>NUTR<em>2050</em>DE</td>
<td>Family and Community Nutrition</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>OAGR<em>2300</em>DE</td>
<td>Organic Marketing</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>PATH<em>3610</em>DE</td>
<td>Principles of Disease</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>PHIL<em>2070</em>DE</td>
<td>Philosophy of the Environment</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>PHIL<em>2100</em>DE</td>
<td>Critical Thinking</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>PHIL<em>2120</em>DE</td>
<td>Ethics</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>PHIL<em>2130</em>DE</td>
<td>Philosophy of Religion</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>PHIL<em>2170</em>DE</td>
<td>Existentialism</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>PHIL<em>3240</em>DE</td>
<td>Philosophy of Technology</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>PHYS<em>1020</em>DE</td>
<td>Introductory Physics</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>PHYS<em>1600</em>DE</td>
<td>Contemporary Astronomy</td>
<td>[0.50]</td>
<td></td>
</tr>
<tr>
<td>POLS<em>1400</em>DE</td>
<td>Issues in Canadian Politics</td>
<td>[0.50]</td>
<td></td>
</tr>
</tbody>
</table>
World Politics
Political Theory
Public Administration and Governance
Canadian Government and Politics
Public Policy: Challenges and Prospects
Governing Criminal Justice
Environmental Politics and Governance
Corruption, Scandal and Political Ethics
Principles of Behaviour
Quantification in Psychology
Introduction to Social Psychology
Introductory Research Methods
Principles of Sensation and Perception
Behavioural Neuroscience I
Introduction to Developmental Psychology
Cognitive Psychology
Personality
Compensation Systems
Psychology of Law
Psychology in Human Resource Management
Organizational Psychology
Psychological Measurement
Psycholinguistics
Abnormal Psychology
Psychology of Sport
The Psychology of Death and Dying
Psychology of Learning Difficulties and Disabilities I
Psychology and Education
Intellectual Disabilities
Contemporary Artistic Practice
Introduction to Gender Systems
Sociology
Crime and Criminal Justice
Social Deviance
Homicide
Law and Society
Soil Science
Soil and Water Conservation
Statistics for Business Decisions
Contemporary Cinema
Environmental Chemistry and Toxicology
Environmental Perspectives and Human Choices I
Environmental Perspectives and Human Choices II
Introduction to Women's Studies

Note:
• Getting ready for Calculus, a non-degree credit preparatory course, is also offered via distance.

Note: Please check with the Office of Open Learning 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 University of Guelph offers opportunities for qualified students to do graduate work leading to the Master of Arts (M.A.), 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 Fine Art (M.F.A.), Master of Science in Aquaculture (M.Sc. Aqua), 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.

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.

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.
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/

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 (Biological Science)

- Biomedical Toxicology
- Earth Surface Science
- Environmental Toxicology
- Plant Biology

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 Office of Open Learning

The Office of Open Learning is the institutional focus for distance education, continuing education, and the Open Learning program. As such, the Office of Open Learning 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 in another program or 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 Office of Open Learning, 160 Johnston Hall, by email: info@open.uoguelph.ca, by phone 519-767-5000 or at www.open.uoguelph.ca

Guaranteed Admission to the 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*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 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 Office of Open Learning.)

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 Office of Open Learning 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.open.uoguelph.ca/bursary/

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.
Distance Education

The Office of Open Learning 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 Office of Open Learning 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 Office of Open Learning, Johnston Hall Room 160, 519-767-5000, info@open.uoguelph.ca, or at www.open.uoguelph.ca

Continuing Education

The Office of Open Learning 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 Office of Open Learning contact us at tel: 519-767-5000; fax 519 767-1114; email: info@open.uoguelph.ca; website: www.open.uoguelph.ca; or visit us in Johnston Hall Room 160.

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

This certificate program is designed for real property professionals who are involved in valuation and appraisal and who are seeking accreditation with the Appraisal Institute of Canada. It will also provide graduate and undergraduate business students, who are interested in real estate, an opportunity to continue their professional development.

Required Courses:

- Real Estate Appraisal
- Urban Economics
- Advanced Real Estate Appraisal
- Real Estate Law
- Case Studies in Appraisal I
- Case Studies in Appraisal II

The courses will be delivered in a face-to-face format on the University of Guelph campus. Each course will consist of 20 instructional hours, offered over 4 alternate Saturdays. Students can complete this certificate in 12 months.

For more information, please contact the Office of Open Learning by e-mail at info@open.uoguelph.ca or call 519-767-5000.

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 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.

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. Elective course must be pre-approved by the Manager, Program Development.

Optional Course:

- Introduction to Finance and Accounting

For more information and to apply to this program, visit 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.equinestudiesdiploma.com](http://www.equinestudiesdiploma.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/)

### 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
- Introduction to Landscape Design
- Introduction to Plant Identification
- Computer Assisted Design
- Business Management Principles

For details and to apply, please see [http://www.horticulturecertificates.com/](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/](http://www.horticulturecertificates.com/)

Last Revision: March 15, 2014
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 and Urban Gardening

Elective Courses - choose one of the following:
- Ecology of Gardens and Landscapes in an Urban Environment
- Agricultural Plant Identification 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:
- 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 Office of Open Learning, Room 160, Johnston Hall, by email: info@open.uoguelph.ca, by phone 519-767-5000 or http://www.open.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

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.

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 over-lap 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).
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.
Prerequisite(s): 1 of ECON*1050, ECON*1100, ENGG*3240
Equate(s): AGEC*2220 , BUS*2220
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*2230
Restriction(s): Enrolment may be restricted to particular degrees or programs. See department for more information.

ACCT*3240 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): 10.00 credits including (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
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 B.B.R.M.
Location(s): Ridgeway, Kemptville

AGR*1100 Introduction to the Agrifood Systems F (2-3) [0.50]
This course examines current events within various production and maintenance sectors in an effort to gain up-to-date knowledge and analytical skills when dealing with issues in agri-food, landscape and associated industries.

Restriction(s): AGR*1150, UNIV*1500, enrollment in the B.Sc.(Agr.), B.Comm.(AGBU), or B.A.(AGEC) program
Location(s): Kemptville

AGR*1250 Agrifood System Trends & Issues W (3-2) [0.50]
The course examines the complexities and contributing factors within the food system, production agriculture and landscapes management. From producer to consumer, students will examine ways in which each stage of a system process is empowered by various inputs as well as directed by various influences.

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 pasturclands.

Prerequisite(s): BIOL*1040, SOIL*2010
Restriction(s): Registered in B.B.R.M. Equine Management.
Location(s): Kemptville

AGR*2100 Human Resource Management W (3-2) [0.50]
This course will introduce students to theoretical and practical skills of management and interacting with people. Topics will include recruiting, supervising, motivation, training employees, effective listening, dealing with difficult people, group dynamics and leadership skills.

Restriction(s): Registered in B.B.R.M.
Location(s): Kemptville

AGR*2150 Plant Agriculture for International Development F (3-0) [0.50]
This course will provide 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. Offered by the Department of Plant Agriculture.

Prerequisite(s): 4.00 credits
Restriction(s): AGR*2470

AGR*2230 Soils in Agroecosystems F (3-3) [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.

Prerequisite(s): [BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)], CHEM*1040, MATH*1080
Restriction(s): AGR*2301/2, 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, national and international. 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*1070, BIOL*1080, BIOL*1090)

AGR*2400 Economics of the Canadian Food System F (3-1) [0.50]
This course introduces students to the major aspects of economics, business and resource use in the Canadian agrifood sector. Students will be exposed to the techniques used by agrifood 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.

Prerequisite(s): AGR*1250, ECON*1050
Restriction(s): AGR*2401/2

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.

Prerequisite(s): BIOL*1030 or (BIOL*1070, BIOL*1090)
Restriction(s): AGR*2451/2

AGR*2500 Field Course in International Agriculture W (3-0) [0.50]
This course introduces students to a wide range of tropical and subropical 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. 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 B.Sc.(Agr.) or B.A.(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.

Prerequisite(s): 10.00 credits
Restriction(s): Instructor consent required.

AGR*3500 Experiential Education I 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 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 B.Sc.(Agr.), B.B.R.M. and Agricultural Business students.

Prerequisite(s): 5.00 credits
Restriction(s): Instructor consent required.

AGR*3510 Experiential Education II F (3-0) [0.50]
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. Fall classes of poster presentations to share experiences.

Prerequisite(s): AGR*2500
Restriction(s): Instructor consent required.

AGR*4010 Special Studies in Agricultural Science II 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 science. The topic of the special study will be determined in consultation with an OAC faculty member and the individual student. Students are responsible for making appropriate arrangements with faculty member prior to registration for the course.

Prerequisite(s): 15.00 credits
Restriction(s): Instructor consent required.
### AGR*4450 Research Project I S,F,W (0-12) [1.00]

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. Open to students in semesters 5, 6, 7, and 8 of the B.Sc. (Agr.) or B.Sc. degree program. This course will normally be followed by AGR*4460 to provide 2 semesters to complete the research project.

**Prerequisite(s):** Completion of semester 4 in any relevant major of the B.Sc. (Agr.) or B.Sc. program, 70% cumulative average.

**Restriction(s):** Permission of the course coordinator (contingent on the availability and agreement of a faculty advisor)

### AGR*4460 Research Project II S,F,W (0-12) [1.00]

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.

**Prerequisite(s):** AGR*4450

**Restriction(s):** Permission of the course coordinator and faculty advisor

### AGR*4500 Agrifood Industry Problem-Solving W (3-0) [0.50]

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.

**Prerequisite(s):** 3.50 credits at the 3000 level or 1.50 credits at the 4000 level in any agricultural science area or agricultural business area.
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.
ANSC*2330 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 B.B.R.M.(EQM).

ANSC*2340 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*1070, BIOL*1080, BIOL*1090)

ANSC*3050 Aquaculture; Advanced Issues F (3-0) [0.50]

This course examines the fundamental principles and advanced interdisciplinary issues involved in the rearing 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 ZOO*2090
Restriction(s): ANSC*2200

ANSC*3080 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
Restriction(s): Registration in B.Sc.( Agr.) or B.Sc. Animal Biology

ANSC*3120 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 B.Sc.( Agr.) or B.Sc. Animal Biology

ANSC*3170 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, amononctotic animals mainly carnivorous, contrasted with warm blooded ureeotic omnivores. (Offered in even-numbered years.)

Prerequisite(s): NUTR*3190 or NUTR*3210
Equate(s): NUTR*3340

ANSC*3180 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
Equate(s): NUTR*3350

ANSC*3210 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 different cultures approach animal welfare and attempt to regulate it. (Also offered through Distance Education format.)

Prerequisite(s): A minimum of 7.50 credits including AGR*2350
Restriction(s): ANSC*3150

ANSC*4020 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

ANSC*4050 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

ANSC*4090 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

ANSC*4100 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

ANSC*4230 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.

ANSC*4260 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

ANSC*4270 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

ANSC*4280 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

ANSC*4290 Swine Nutrition F (3-0) [0.50]

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.

Prerequisite(s): ANSC*3120
Restriction(s): ANSC*4190
### ANSC*4350 Experiments in Animal Biology W (0-6) [0.50]
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.

**Prerequisite(s):** ANSC*3080, ANSC*3300, ANSC*4090  
**Co-requisite(s):** ANSC*4100, ANSC*4490  
**Restriction(s):** Registration in Animal Biology Major. Instructor consent required.

### ANSC*4470 Animal Metabolism W (3-0) [0.50]
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.

**Prerequisite(s):** NUTR*3190 or NUTR*3210

### ANSC*4490 Applied Endocrinology W (3-0) [0.50]
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.

**Prerequisite(s):** ANSC*3080  
**Restriction(s):** ANSC*4480

### ANSC*4550 Horse Nutrition W (3-0) [0.50]
This course is designed to provide students with the most current knowledge of nutrition of horses and other domestic non-ruminant herbivores. Influence of nutrition on musculo-skeletal development and function will be emphasized. (Last offering - winter 2011)

**Prerequisite(s):** NUTR*3190 or NUTR*3210  
**Restriction(s):** ANSC*4500

### ANSC*4560 Pet Nutrition F (3-0) [0.50]
This course covers nutrient requirements, feed formulation and nutritional idiosyncrasies for dogs, cats, and exotic pets.

**Prerequisite(s):** NUTR*3190 or NUTR*3210  
**Restriction(s):** ANSC*4510

### ANSC*4610 Critical Analysis in Animal Science W (3-0) [0.50]
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.

**Prerequisite(s):** 12.00 credits including 2.00 in animal sciences

### ANSC*4650 Comparative Immunology W (3-0) [0.50]
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.

**Prerequisite(s):** ANSC*3080

### ANSC*4700 Research in Animal Biology I S,F,W (0-6) [0.50]
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.

**Prerequisite(s):** 14.00 credits  
**Restriction(s):** Registered in Animal Biology Major. Instructor consent required.

### ANSC*4710 Research in Animal Biology II S,F,W (0-6) [0.50]
This course is a continuation of ANSC*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*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.

**Prerequisite(s):** 14.00 credits  
**Restriction(s):** Registration in Animal Biology Major. Instructor consent required.
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 hominid evolution, contemporary human diversity, nutrition and diet, and an introduction of forensic anthropology and paleopathology.

ANTH*1150 Introduction to Anthropology S,F,W (3-0) [0.50]

An introductory course dealing 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

ANTH*2660 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, ethno-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*2010, 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 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 Anthropological Issues F (3-0) [0.50]

Current issues and future trends in the discipline of socio-cultural anthropology will provide the subject matter of this variable content course. This course is meant to provide an opportunity for socio-cultural anthropology majors to consider the latest developments in the sub-discipline. Course topics will be announced and course outlines will be available at course selection time.

Prerequisite(s): 12.50 credits including ANTH*3690, SOAN*3070

ANTH*4440 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>Credit Value</th>
<th>Description</th>
</tr>
</thead>
</table>
| 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):* Instructor 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 plus 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

Equatable: 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*2490 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 interpretative 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 great 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*2550 The Italian Renaissance W (3-0) [0.50]

This course will investigate the myths and realities of the Renaissance in the visual arts. The artists to be studied will include Giotto, Duccio, Ghiberti, Donatello, Alberti, the Bellini, Verrochio and Michelangelo. Their careers will be placed against the theoretical beginnings of art writing and the intricate relationships of the emerging city-states of Siena, Florence, Milan, and the republic of Venice.

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 odd-numbered years.)

Prerequisite(s): 1 of ARTH*1220, ARTH*1510, ARTH*1520

ARTH*2650 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.
XII. Course Descriptions, 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*3350, 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*3570

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

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

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*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*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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Restriction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH*4850</td>
<td>Honours Thesis I S,F,W (0-9) [0.50]</td>
<td></td>
<td>Under the guidance of a faculty member over two semesters (ARTH<em>4850 in the first semester and ARTH</em>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.</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ARTH*4860</td>
<td>Honours Thesis II S,F,W (0-9) [0.50]</td>
<td></td>
<td>Under the guidance of a faculty member over two semesters (ARTH<em>4850 in the first semester and ARTH</em>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.</td>
<td>ARTH*4850</td>
<td>Instructor consent and approval of the Director required.</td>
</tr>
</tbody>
</table>
Arts and Sciences

Dean's Office, College of Arts

Registration in ASCI* courses is limited to students in the Bachelor of Arts and Sciences 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):  ASCI*1250. Registration in the Bachelor of Arts and Sciences 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
Restriction(s):  Registration in the Bachelor of Arts and Sciences 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 Bachelor of Arts and Sciences 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 Bachelor of Arts and Sciences 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 endeavors 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 Bachelor of Arts and Sciences degree program.

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 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 9.00 credits.
Restriction(s):  Registration in the Bachelor of Arts and Sciences degree program.  Instructor consent required.

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 Bachelor of Arts and Sciences degree program.

ASCI*4030 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 Bachelor of Arts and Sciences degree program.

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 Bachelor of Arts and Sciences degree program.  Instructor consent required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC*2580</td>
<td>Introduction to Biochemistry S,F,W (3-3) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BIOC*3560</td>
<td>Structure and Function in Biochemistry F,W (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BIOC*3570</td>
<td>Analytical Biochemistry S,F (3-4) [0.75]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BIOC*4520</td>
<td>Metabolic Processes F (3-0) [0.50]</td>
<td>This course is an in-depth study of the role of bioenergetics, regulation, and chemical mechanisms in carbohydrate, lipid, and nitrogen metabolism.</td>
<td></td>
</tr>
<tr>
<td>BIOC*4540</td>
<td>Enzymology W (3-3) [0.75]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>BIOC*4580</td>
<td>Membrane Biochemistry W (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>-------</td>
<td>-------</td>
<td></td>
</tr>
<tr>
<td>BIOL*1030</td>
<td>Biology I F (3-3)</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>BIOL*1040</td>
<td>Biology II W (3-3)</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>BIOL*1070</td>
<td>Discovering Biodiversity F,W (3-0)</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>BIOL*1080</td>
<td>Biological Concepts of Health F,W (3-1)</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>BIOL*1090</td>
<td>Introduction to Molecular and Cellular Biology F,W (3-0)</td>
<td>0.50</td>
<td></td>
</tr>
</tbody>
</table>

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.

Restrictions:
- BIOL*1030, BIOL*1040, BIOL*1070, BIOL*1080, BIOL*1090

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. 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.

Restrictions:
- Registration in the B.B.R.M.
Location(s):
- Kemptville, Ridgetown

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.

Restrictions:
- BIOL*1030, BIOL*1040

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.

Restrictions:
- BIOL*1030, BIOL*1040

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 the 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.

Restrictions:
- BIOL*1030, BIOL*1040
BIOL*3110 Population Ecology F,W (3-1) [0.50]
An exploration of 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 examine adaptations to 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): (MATH*1080 or MATH*1200), STAT*2040

BIOL*3120 Community Ecology W (3-1) [0.50]
A course on the structure and dynamics of communities, dealing 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*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*3400 Evolution F,W (3-0) [0.50]
This course provides a comprehensive introduction to evolutionary biology, the historical development of the discipline, the extent and nature of genetic diversity, and the mechanisms of evolutionary change. Examination of adaptation and speciation, and the origins and patterns of biotic diversity through evolutionary time. Designed to integrate evolutionary theory with other fields of biology such as development, ecology and systematics. Department of Integrative Biology.
Prerequisite(s): 4.00 credits including (BIOL*1090 or MBG*2000 )
Equate(s): ZOO*3300

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 IBIO*2300 , ZOO*2070 , ZOO*2700 is strongly recommended)

BIOL*4010 Adaptional 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): IBIO*4010

BIOL*4040 Natural Resources Policy W (3-0) [0.50]
This course provides an analysis of how political, economic, social and scientific factors interact to determine the policy underlying management of renewable and non-renewable natural resources provincially, nationally and internationally. The course will analyze current policies pertaining to fisheries, wild life, forestry, energy, water, minerals, international treaties and accords. Department of Integrative Biology.
Prerequisite(s): 15.00 credits
Equate(s): ZOO*4050
Restriction(s): Registration in Semester 7 or 8.

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): ( BIOL*3020 or MBG*3000 ) or ( BIOL*3400 or ZOO*3300 )

BIOL*4110 Ecological Methods F (3-3) [0.75]
An advanced course designed to present theoretical and practical aspects of research methods in ecology. Emphasis will be placed on experimental design, sampling, population estimation, statistical inference, and community 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*3120, STAT*2040

BIOL*4120 Evolutionary Ecology W (3-1) [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, foraging strategies, spatial distribution, social and reproductive strategies. The course will emphasize both the theoretical basis and the empirical evidence for ecological adaptation. There is a 1-hour seminar each week for class discussion of selected lecture topics. Department of Integrative Biology.
Prerequisite(s): BIOL*3110, ( MBG*2000 or MBG*2040), (1of BIOL*3020 , BIOL*3400, MBG*3000 , 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
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 ecology, and/or behaviour, in terrestrial or aquatic habitats. Emphasis is placed upon students asking ecological questions, designing experiments, and then collecting data from intensive field work. There are no formal lectures, but an organizational meeting is held in the winter semester prior to the field course. The charge by the field station for room and board will be passed on to the student. Students are also responsible for their own transportation to and from the field station. A departmental application form must be submitted for approval at least 4 weeks prior to the last day of course selection for the Summer semester, and the signature of the course coordinator will be 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. Detailed information is available from the Department of Integrative Biology.
Prerequisite(s): 0.5 credits in ecology
Equate(s): ZOO*4410
Restriction(s): Instructor consent required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL*4610</td>
<td>Arctic Ecology</td>
<td>F (1-6) [0.75]</td>
<td>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.)</td>
</tr>
<tr>
<td>BIOL*4700</td>
<td>Field Biology</td>
<td>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>
</tr>
<tr>
<td>BIOL*4710</td>
<td>Field Biology</td>
<td>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>
</tr>
<tr>
<td>BIOL*4800</td>
<td>Field Biology</td>
<td>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>
</tr>
<tr>
<td>BIOL*4810</td>
<td>Field Biology</td>
<td>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>
</tr>
<tr>
<td>BIOL*4900</td>
<td>Field Biology</td>
<td>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>
</tr>
</tbody>
</table>
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. (Offered through Distance Education format only.)

Restriction(s): ANSC*3080, BIOM*3100, BIOM*3200, HK*3940, ZOO*3200, ZOO*3210. Not available to B.Sc. Students in biological science specializations.

**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 behaviour.

Prerequisite(s): 1 of BIOM*3100, 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 a primary research article.

Prerequisite(s): [BIOL*1040 or (BIOL*1070, BIOL*1090)], (1 of BIOM*3100, BIOM*3200, HK*3940), (1of BIOM*3010, HK*3401/2, ZOO*3200 is recommended).

**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*2500, (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, BIOM*3100, ZOO*3200.

**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).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM*4420 Research Modules W (0-6) [0.50]</td>
<td>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.</td>
<td>0.50</td>
<td>Prerequisite(s): 14.00 credits (1 of: BIOM<em>3110, BIOM</em>3200, HK<em>3940) Recommended: BIOM</em>4210 or HK<em>4410 Equate(s): HK</em>4420 Restriction(s): BIOM<em>4510, BIOM</em>4521/2, HK<em>4360, HK</em>4371/2. Instructor consent required.</td>
</tr>
<tr>
<td>BIOM*4500 Literature-based Research in Biomedical Sciences F (0-6) [0.50]</td>
<td>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.</td>
<td>0.50</td>
<td>Prerequisite(s): 12.00 credits Restriction(s): HK*4230 Instructor consent required. Enrolment restricted to B.Sc. BIOM majors or B.Sc. NEUR minors.</td>
</tr>
<tr>
<td>BIOM*4510 Research in Biomedical Sciences S,F,W (0-12) [1.00]</td>
<td>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.</td>
<td>1.00</td>
<td>Prerequisite(s): 14.00 credits Restriction(s): BIOM*4521/2. Instructor consent required. Enrolment restricted to B.Sc. BIOM majors.</td>
</tr>
<tr>
<td>BIOM*4521 Research in Biomedical Sciences F (0-12) [1.00]</td>
<td>This is the first part of the two-semester course BIOM<em>4521/2. Refer to BIOM</em>4521/2 for the complete course description.</td>
<td>1.00</td>
<td>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.)</td>
</tr>
<tr>
<td>BIOM*4521/2 Research in Biomedical Sciences F-W [2.00]</td>
<td>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<em>4521 in the first semester and BIOM</em>4522 in the second semester. A grade will not be assigned in BIOM<em>4521 until BIOM</em>4522 has been completed.</td>
<td>2.00</td>
<td>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.)</td>
</tr>
<tr>
<td>BIOM*4522 Research in Biomedical Sciences W (0-12) [1.00]</td>
<td>This is the second part of the two-semester course BIOM<em>4521/2. Refer to BIOM</em>4521/2 for the complete course description.</td>
<td>1.00</td>
<td>Prerequisite(s): BIOM*4521.</td>
</tr>
</tbody>
</table>
### 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>
<th>Course Title</th>
<th>Credits</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT*1200</td>
<td>Plants and Human Use W (3-0) [0.50]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Restriction(s):</strong> BIOL<em>1030, BIOL</em>1040</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOT*2000</td>
<td>Plants, Biology and People W (3-0) [0.50]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> BIOL*1040</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Restriction(s):</strong> BOT*1200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOT*2100</td>
<td>Life Strategies of Plants F,W (3-3) [0.50]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> BIOL<em>1040 or (2 of BIOL</em>1070, BIOL<em>1080, BIOL</em>1090)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOT*3050</td>
<td>Plant Functional Ecology F (3-3) [0.50]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> 7.50 credits including (BIOL<em>1040 or BIOL</em>1070)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Restriction(s):</strong> BOT*2050</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOT*3310</td>
<td>Plant Growth and Development W (3-3) [0.50]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> BIOL<em>1040 or [(BIOL</em>1090, (BIOL<em>1070 or BIOL</em>1080)]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOT*3410</td>
<td>Plant Anatomy F (3-3) [0.50]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> BIOL<em>1040 or (2 of BIOL</em>1070, BIOL<em>1080, BIOL</em>1090)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOT*3710</td>
<td>Plant Diversity and Evolution W (3-3) [0.50]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Prerequisite(s):</strong> 7.50 credits including (BIOL<em>1040 or BIOL</em>1070)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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
### BUS*2090 Individuals and Groups in Organizations F,W (3-0) [0.50]

The course serves as an overview to organizational behaviour. 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*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

Equate(s): HTM*3000

Restriction(s): PSYC*3070. Priority Access course. Enrolment restricted to particular programs or specializations. See department for more information.

### BUS*3320 Financial Management F,W (3-0) [0.50]

The viewpoint taken in the course is that of the senior financial officer of a business firm. The focus is on the management of cash, accounts receivable, inventory and short and intermediate term liabilities. Emphasis is placed on the analysis and forecasting of financial statements, and financial modeling for planning and controlling the growth of the business enterprise.

Prerequisite(s): 1 of ACCT*2230, AGEC*2230, BUS*2230, HAFA*3070, HTM*3070

Equate(s): AGEC*3320

Restriction(s): Registration in B.Comm. programs, BA Management Economics programs, BA International Development area of emphasis Economic & Business Development or BA European Studies area of emphasis in European Business Studies.

### 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): (AGEC*3310 or FARE*3310), (1 of AGEC*3320, AGEC*3400, BUS*3320, FARE*3400), ECON*3560

Equate(s): AGEC*4250

Restriction(s): Registration in semester 6 or higher. Priority Access course. Enrolment may be restricted to particular programs or specializations. See department for more information.

### 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.)

Restriction(s): CHEM*1040

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, 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 is an introduction to organic chemistry, stereochemistry, discussion of the major mechanisms and related reactions: 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

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, (MATH*1210 or 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, colloigative properties and spectroscopy. This course describes macroscopic observable properties of matter in terms of molecular concepts.
Prerequisite(s): CHEM*1050, (1 of 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
Equivalents: TOX*3360

CHEM*3430 Analytical Chemistry II: Instrumental Analysis S,W (3-3) [0.50]
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), CHEM*2970 (may be taken concurrently)
Restriction(s): TOX*3360

CHEM*3440 Analytical Instrumentation 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 Bases, 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]
A continuation of the coverage of fundamental aspects of organic chemistry using an assimilation of carbonyl 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

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*2070, 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

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*2300 or CHEM*2970), (CHEM*3430 or TOX*3360), (MATH*1210 or MATH*2080)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Co-requisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM*4400</td>
<td>Advanced Topics in Analytical Chemistry W (3-0)</td>
<td>[0.50]</td>
<td>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.</td>
<td>CHEM<em>3430 or CHEM</em>3450</td>
<td></td>
</tr>
<tr>
<td>CHEM*4620</td>
<td>Advanced Topics in Inorganic Chemistry F (3-0)</td>
<td>[0.50]</td>
<td>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.</td>
<td>CHEM*3650</td>
<td></td>
</tr>
<tr>
<td>CHEM*4630</td>
<td>Bioinorganic Chemistry W (3-0)</td>
<td>[0.50]</td>
<td>This course covers the role and importance of transition metal systems in biological processes. (Offered in odd numbered years.)</td>
<td>BIOC<em>2580, CHEM</em>3650</td>
<td>CHEM*3650</td>
</tr>
<tr>
<td>CHEM*4720</td>
<td>Organic Reactivity W (3-0)</td>
<td>[0.50]</td>
<td>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.)</td>
<td>CHEM*3760</td>
<td>CHEM*3760</td>
</tr>
<tr>
<td>CHEM*4730</td>
<td>Synthetic Organic Chemistry F (3-0)</td>
<td>[0.50]</td>
<td>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.</td>
<td>CHEM*3750</td>
<td></td>
</tr>
<tr>
<td>CHEM*4740</td>
<td>Topics in Bio-Organic Chemistry F (3-0)</td>
<td>[0.50]</td>
<td>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.</td>
<td>BIOC<em>2580, CHEM</em>3750</td>
<td></td>
</tr>
<tr>
<td>CHEM*4880</td>
<td>Topics in Advanced Physical Chemistry W (3-0)</td>
<td>[0.50]</td>
<td>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.)</td>
<td>(CHEM<em>2820 or PHYS</em>3240), CHEM*3860</td>
<td></td>
</tr>
<tr>
<td>CHEM*4900</td>
<td>Chemistry Research Project I S,F,W (0-12)</td>
<td>[1.00]</td>
<td>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.</td>
<td>5.00 credits in chemistry including (1.50 credits from CHEM<em>3430, CHEM</em>3640, CHEM<em>3650, CHEM</em>3750, CHEM<em>3760, CHEM</em>3870)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Restriction(s):</strong> Instructor consent required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM*4910</td>
<td>Chemistry Research Project II S,F,W (0-12)</td>
<td>[1.00]</td>
<td>This is a research project and seminar in chemistry. Students must make arrangements with both a faculty supervisor and the course coordinator prior to registration.</td>
<td>CHEM*4900</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Restriction(s):</strong> Instructor consent required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
<td>---------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN*1200</td>
<td>Introductory Chinese I F</td>
<td>3-0</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.50</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN*1210</td>
<td>Introductory Chinese II W</td>
<td>3-0</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.50</td>
<td>Prerequisite(s): CHIN*1200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN*1280</td>
<td>Conversational Chinese I F</td>
<td>3-0</td>
<td>The emphasis of this course is intensive practice of conversation and vocabulary acquisition in Mandarin Chinese.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.50</td>
<td>Restriction(s): This course is restricted to students who are not fluent in Mandarin Chinese.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN*1290</td>
<td>Conversational Chinese II W</td>
<td>3-0</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.50</td>
<td>Prerequisite(s): CHIN*1280</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Restriction(s): This course is restricted to students who are not fluent in Mandarin Chinese.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN*2010</td>
<td>Chinese Language and Culture F</td>
<td>3-0</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.00</td>
<td>Prerequisite(s): CHIN*1200 or equivalent</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Restriction(s): Admission to the Shanghai semester. Instructor consent required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN*2200</td>
<td>Intermediate Chinese I F</td>
<td>3-0</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.50</td>
<td>Prerequisite(s): CHIN*1210</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Restriction(s): Instructor consent required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHIN*2210</td>
<td>Intermediate Chinese II W</td>
<td>3-0</td>
<td>This is a continuation of Intermediate Chinese I. Additional emphasis will be given to the study of Chinese characters and grammar.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.50</td>
<td>Prerequisite(s): CHIN*2200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Restriction(s): Instructor consent required.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Classical Studies

#### School of Languages and Literatures

Unless otherwise noted, these courses do not require a knowledge of the Greek or Latin languages.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
<th>Restriction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS*1000</td>
<td>Introduction to Classical Culture FW</td>
<td>Registration in Classical Languages.</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*2150</td>
<td>Western Art: Greece F</td>
<td>Registration in Classical Languages.</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3000</td>
<td>The Rise and Fall of Athens F</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3010</td>
<td>The Roman Revolution W</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3020</td>
<td>History of the Hellenistic World F</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3030</td>
<td>Epic Heroes and Poems W</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3040</td>
<td>Greek Tragedy and Comedy W</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3080</td>
<td>Epic Heroes and Poems (in Greek) W</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3100</td>
<td>Religion in Greece and Rome F</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3120</td>
<td>Religion in Greece and Rome (in Latin) F</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3150</td>
<td>Space: Roman Art and Urbanism W</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3300</td>
<td>Directed Reading in Classical Languages U</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3400</td>
<td>Novel and Romance in Antiquity F</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
<tr>
<td>CLAS*3410</td>
<td>Novel and Romance in Antiquity (in Latin) F</td>
<td>LAT*2000</td>
<td>Registration in Classical Languages.</td>
</tr>
</tbody>
</table>

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
**CLAS*4150 Research Paper in Classics F,W (3-0) [0.50]**
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.

*Prerequisite(s):* 1.50 credits in Classical Studies courses at the 3000 level

**CLAS*4400 Seminar in Classics W (3-0) [0.50]**
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.

*Prerequisite(s):* 1.50 credits in Classical Studies at the 3000 level
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.

CIS*1000 Introduction to Computer Applications S,F,W (3-2) [0.50]
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.)

Restriction(s): 
CIS*1200, Not available to students registered in B.A.Sc. Program
(Applied Human Nutrition major)

CIS*1200 Introduction to Computing F,W (3-2) [0.50]
This course covers 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. For students who wish a balance between programming and the use of software packages. Cannot be taken for credit by students taking a major or minor in Computing and Information Science. (Also offered in Distance Education format.)

Restriction(s): 
CIS*1000

CIS*1250 Software Design I F (3-2) [0.50]
This is an introductory course which involves a general overview of design 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.

CIS*1500 Introduction to Programming F,W (3-2) [0.50]
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.)

Restriction(s): 
CIS*1650

CIS*1910 Discrete Structures in Computing I W (3-2) [0.50]
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.

Restriction(s): 
CIS*1900

CIS*2030 Structure and Application of Microcomputers F (3-3) [0.50]
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.

Prerequisite(s): (CIS*1900 or CIS*1910), (CIS*2500 or CIS*2650)

CIS*2050 Computers and Society S (3-0) [0.50]
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.)

Restriction(s): 
CIS*3000. This course may not be taken for credit by students in the Software Engineering Major.

CIS*2170 User Interface Design W (3-2) [0.75]
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.

Prerequisite(s): 
CIS*1200 or CIS*1500

CIS*2250 Software Design II W (3-2) [0.50]
This course focuses on the process of software design. Best practices for code development and review will be 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.

Prerequisite(s): 
CIS*1250, CIS*1500

CIS*2340 Object Oriented Programming F (3-2) [0.50]
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.

Prerequisite(s): 
CIS*2500

CIS*2460 Modelling of Computer Systems F (3-2) [0.50]
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 queueing models of software and hardware operation.

Prerequisite(s): 
CIS*2500

CIS*2500 Intermediate Programming W (3-2) [0.50]
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.

Prerequisite(s): 
CIS*1500

Equates: 
CIS*2650

CIS*2520 Data Structures F (3-2) [0.50]
Basic data structures are studied including: stacks, queues, lists, trees, hashing, search trees, 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.

Prerequisite(s): 
CIS*2500, (1 of CIS*1910, ENGG*1500)

Equates: 
CIS*2420

CIS*2750 Software Systems Development and Integration W (3-2) [0.75]
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.

Prerequisite(s): 
CIS*2430, CIS*2520

Restriction(s): 
CIS*2430

CIS*2910 Discrete Structures in Computing II F (3-2) [0.50]
This course introduces graph theory, combinatorics and other discrete structures used in computer science, including graph representations, traversal and simple graph algorithms, trees, counting strategies, summations, and an introduction to finite probability, recursion, and finite state machine models.

Prerequisite(s): 
CIS*1500, (CIS*1910 or ENGG*1500)

Restriction(s): 
CIS*1900

CIS*3000 Social Implications of Computing F (4-0) [0.50]
This course focuses on social, ethical, legal and managerial issues in the application of computer science to the information technology industry. Through seminars and case studies, human issues confronting Computer Science professionals will be addressed.

Prerequisite(s): 
2.00 credits in CIS courses

Restriction(s): 
CIS*2505 Cannot be taken for credit by students in B.Comp. Software Engineering.

CIS*3090 Parallel Programming F (3-1) [0.50]
This course examines the current techniques for design and development of parallel programs targeted for platforms ranging from multicore computers to high-performance clusters, with and without shared memory. It includes theoretical models for, and hardware effects on, parallel computation, the definitions of speedup, scalability, and data- versus task-parallel approaches. The course will also examine strategies for achieving speedup based on controlling granularity, resource contention, idle time, threading overhead, work allocation, and data localization.

Prerequisite(s): 
(CIS*2030 or ENGG*3640), CIS*3110
CIS*3110 Operating Systems 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 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 III F (3-3) [0.50]
This course will examine the historical development of design methodologies and working with legacy systems. It will include an examination of programming paradigms and trends in software design from the past and present. 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 2011)
Prerequisite(s): CIS*2250, CIS*2500

CIS*3260 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*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*1900 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 FW (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 2.5 credits in an Area of Application.

CIS*4050 Advanced Computer Architectures F (3-1) [0.50]
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*2030, CIS*3110, CIS*3120

CIS*4110 Computer Security W (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 of 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.

Prerequisite(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 searchings, automatic indexing, database query optimization and system support, web based retrieval. (Offered in even-numbered years and may be offered in odd-numbered years.)

Prerequisite(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.

Restriction(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.

Restriction(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.

Prerequisite(s): CIS*2030, CIS*3110, CIS*3150

Restriction(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.)

Prerequisite(s): (CIS*2450 or CIS*2750), CIS*3110, (CIS*2460 or STAT*2040), (CIS*3700 recommended)

Restriction(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.)

Prerequisite(s): (CIS*3750 or CIS*3760) CIS*3490, (CIS*2460 or STAT*2040), (CIS*5700 recommended)

Restriction(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.)

Prerequisite(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.)

Prerequisite(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.

Prerequisite(s): 7.00 credits in CIS

Restriction(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.

Prerequisite(s): CIS*4900

Restriction(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 differ 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 is order to continue in the Co-op program.

**Prerequisite(s):** Completion of previous co-op work requirements in COOP*4000
### Crop Science

**Department of Plant Agriculture**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CROP*1050</td>
<td>Green Energy - Fuel from Plants</td>
<td>(3-0) [0.50]</td>
<td>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.)</td>
</tr>
<tr>
<td><strong>Restriction(s):</strong></td>
<td></td>
<td></td>
<td>Not acceptable for students in the B.Sc., B.Sc.(AGR) or B.Sc.(ENV) programs.</td>
</tr>
</tbody>
</table>
| CROP*2110 | Crop Ecology | (3-0) [0.50] | Fundamental ecological principles are applied to managed agricultural ecosystems. Crop selection and management are viewed as influencing interactions among species and the environment. Adaptation and distribution of temperate zone crops are related to both environmental constraints and human intervention.  

**Prerequisite(s):** BIOL*1040 or BIOL*1070 |
| CROP*2280 | Crops in Land Reclamation | (2-2) [0.50] | The use of vegetation to reclaim land disturbed by human intervention, including mining and extraction, construction of right-of-ways, waste disposal, and logging, are introduced. Fundamentals of soil, plant, and associated microbial relations are reviewed, with emphasis on plant adaptation to soil constraints. Presentations by guest speakers and visits to nearby sites are used to identify the off as well as on-site environmental implications of land disturbance. |
| CROP*3300 | Grain Crops | (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*2451/2, AGR*2470, CROP*2110 |
| CROP*3310 | Protein and Oilseed Crops | (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 | (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. 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*2451/2, AGR*2470, CROP*2110 |
| CROP*4220 | Cropping Systems | (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, CROP*3350, SOIL*3080 or SOIL*4090) |
| CROP*4240 | Weed Science | (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** (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.

---

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
Economics

Department of Economics and Finance

For courses without semester designations, please check with the department. Advance schedules are available in the department.

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.)

Equate(s): ECON*1200

ECON*1100 Introductory Macroeconomics S,F,W (3-0) [0.50]
The Canadian economy: aggregate performance and policy; an analysis of the determinants of national income, employment and the price level, 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*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]
An examination of 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

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*1050, ECON*1100, (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 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 F (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,W (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 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*1050, ECON*1100, (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*1050, ECON*1100, (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 concepts of health economics with particular relevance to workplace issues. Topics to be covered include the determinants of health, the demand for supply and health care, the market for health care providers, health insurance, public and private, the role of health insurance in the labour market, whether not having to provide comprehensive health insurance to their workers gives Canadian firms an edge over their American competitors, workplace health risks and their effects on working conditions and salaries, workplace wellness programs and their evaluation, and the analysis of the cost-effectiveness of health interventions.

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*3460 Introduction to Finance F (3-0) [0.50]
This course examines some important principles of the theory of finance which underlie investment (capital budgeting) and associated financing decisions of financial managers. These decisions are necessarily interdependent and typically carried out under conditions of uncertainty regarding the future values of key economic variables, for example, cash flows. Problems, illustrations and short case studies are used to demonstrate how finance theory can be applied and assist financial managers to make optimal decisions. (Not open to B.Comm. MEIF or MEIF:C students.) (Last Offering - Fall 2013)

Prerequisite(s): ECON*1050, ECON*1100, (1 of ECON*2740, PSYC*2010, STAT*2060, STAT*2080)

Restriction(s): For B.Comm. students only. But, B.Comm.(MEIF) not allowed to take this course.
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*3550 Theory of Finance F,W (3-0) [0.50]
Capital budgeting and long-term finance and investment decisions by firms and individuals. Introduction to capital asset pricing under uncertainty and to concept of efficient markets. Major emphasis is on corporate finance. (Also offered through Distance Education format.) (Last offering - Summer 2011)
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*3580 Economics of Regulation U (3-0) [0.50]
A study of the economic reasons for government intervention in the marketplace. Emphasis will be placed on the role of crown corporations, regulatory agencies, regulation rules and public sector price-setting in the Canadian economy.
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% or more in these courses is recommended.

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 later 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 considered.
Prerequisite(s): ECON*2310, (1 of ECON*2560, ECON*3460, ECON*3560)
Restriction(s): AGEC*4240, FARE*4240

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)
Equate(s): ECON*3600

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. (First offering - Fall 2012)
Prerequisite(s): ECON*2410, (ECON*2560 or ECON*3560)
Equate(s): ECON*3600

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)
Equate(s): ECON*3510

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 measures and 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

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)
ECON*4560 Advanced Topics in Finance U (3-0) [0.50]
This course will examine selected advanced topics in finance, such as optimal capital structure under asymmetric information; theoretical and empirical analysis of mergers and acquisitions; asset pricing theory; pricing derivative securities; and financial econometrics.
Prerequisite(s): (ECON*2560 or ECON*3560), ECON*3710, (1 of ECON*3100, ECON*3770, ECON*3810, ECON*4700), ECON*3740, (2 of ECON*3510, ECON*3660, ECON*3760, FARE*4240, ECON*3860, ECON*3960).

ECON*4640 Applied Econometrics I F (3-0) [0.50]
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 include the instrumented variable approach, the theory and application of F tests. The course provides 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.
Equate(s): ECON*4740.

ECON*4660 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 AGEC*4240, ECON*3510, ECON*3760, ECON*3960, FARE*4240.

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): (ECON*3600 or ECON*3810), ECON*3710, ECON*3740.

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): (ECON*3600 or ECON*3810), ECON*3740, (1 of 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 (AGEC*3320 or BUS*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): (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): (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 designate.
Prerequisite(s): (ECON*3600 or ECON*3810), ECON*3710, ECON*3740.

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.
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 to dyadic and small-group communication. The focus is on communication style and effectiveness with attention to verbal and nonverbal communication, listening behaviour 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*3130 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-food community complex on Ontario communities will be considered mainly from a comparative perspective. Related topics will include physical infrastructure, political conflicts, labor 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 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 counselling 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) [0.50]
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

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
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
Restriction(s): 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.
Restriction(s): 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.

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
Restriction(s): MATH*2150

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
Restriction(s): 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, magnetic coupled circuits.
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 equilibria and micro-structure) 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, 0.50 credits in calculus

ENGG*2230 Fluid Mechanics W (3-2) [0.50]
Analysis of steady ideal and viscous 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 underdamped 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 and sinusoidal steady-state analysis with phasor methods; fundamentals of magnetically coupled circuits.
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
XII. Course Descriptions, Engineering

**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 forming systems and the 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. (First offering - Fall 2012)
Prerequisite(s): ENGG*2030, ENGG*2450, ENGG*3240, ENGG*3410

**ENGG*3050 Embedded Reconfigurable Computing Systems V (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. (First offering - Fall 2012)
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 behaviors, 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 cover various representations of Boolean functions such as binary decision diagrams (BDDs) and discuss their applications to logic synthesis. (First offering - Winter 2013)
Prerequisite(s): ENGG*2410

**ENGG*3210 Communication Systems W (3-3) [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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG*3370</td>
<td>Applied Fluids and Thermodynamics W (3-2) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3380</td>
<td>Computer Organization and Design W (3-2) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3390</td>
<td>Signal Processing F (3-2) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3410</td>
<td>Systems and Control Theory W (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3430</td>
<td>Heat and Mass Transfer W (3-1) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3450</td>
<td>Electrical Devices F (3-2) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3470</td>
<td>Mass Transfer Operations W (3-2) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3490</td>
<td>Introduction to Mechatronic Systems Design W (3-2)</td>
<td>[0.75]</td>
</tr>
<tr>
<td>ENGG*3510</td>
<td>Electromechanical Devices F (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3570</td>
<td>MEMS and Microfabrication F (3-2) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3590</td>
<td>Water Quality F (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3640</td>
<td>Microcomputer Interfacing F (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3650</td>
<td>Hydrology F (3-1) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3670</td>
<td>Soil Mechanics F (3-2) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3700</td>
<td>Optimization for Engineers F (3-2) [0.50]</td>
<td></td>
</tr>
<tr>
<td>ENGG*3830</td>
<td>Bio-Process Engineering F (3-1) [0.50]</td>
<td></td>
</tr>
</tbody>
</table>

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.

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 and 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.

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 Laplace 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.

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.

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.

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.


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.

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, layout and internal and external issues in designing devices such as micromotors, 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. (First offering - Fall 2012)

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.

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.

This course serves as an introduction to combinatorics and optimization and discusses classical direct search-for-optimum methods for constrained optimization, including linear and mathematical programming. It emphasizes the use of graphical and experimental approaches to the solution of optimization problems. 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.
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. (First offering - Winter 2013)
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, gamma 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. (First offering - Winter 2013)
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. (First offering - Winter 2013)
Prerequisite(s): ENGG*3070, ENGG*3510, MICR*1020
Co-requisite(s): ENGG*2660, ENGG*4050, ENGG*4280

ENGG*4110 Biological Engineering Design IV FW (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 in a biological system. 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*4120 Engineering Systems and Computing Design IV FW (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 FW (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 FW (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. (First offering Winter 2013)
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 FW (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. (First offering Winter 2013)
Prerequisite(s): All 1000 and 2000 level core credits 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*4170 Computer Engineering Design IV FW (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 all ENGG courses. Instructor consent required. Restriction waiver requests are handled by the Director, School of Engineering, or designate.
### ENGG*4180 Biomedical Engineering Design IV F,W (3-5) [1.00]
This is the capstone design course for the Biomedical Engineering program. Teams normally of 3-4 students apply engineering analysis and design principles to a biomedical 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 standards. 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 all ENGG courses.
**Instructor consent required.**

### ENGG*4220 Interdisciplinary Mechanical Engineering Design W (3-3) [0.75]
This is a general design course for students registered in the B. Eng. major in mechanical engineering who wish to develop a broad based mechanical engineering foundation. Students work in groups to develop a general mechanical engineering design. Special attention is paid to the sustainability of the design, its economic feasibility and overall efficiency. (First offering - Winter 2013)

**Prerequisite(s):** ENGG*3100

### ENGG*4250 Watershed Systems Design W (3-2) [0.75]
This course is a hydrological analysis of watershed systems including stream flow for design of structures and channels, flood warning, flood plain mapping and low-flow characteristics. Hydraulic analysis is applied to the design of dams, reservoirs, control structures, energy dissipation structures, bridges and culverts. An analysis of steady flow profiles, flood waves, and sediment transport is applied in the design of natural and constructed channels and protective works for rivers to achieve environmentally sustainable land use in watershed systems.

**Prerequisite(s):** ENGG*2230, ENGG*3650

### ENGG*4260 Water and Wastewater Treatment Design W (3-2) [0.75]
Application of design principles for a variety of water purification systems, including drinking water, municipal wastewater, industrial wastewater and agricultural wastewater. This involves the design of physical, chemical and biological unit operations, and evaluating the optimum combination to satisfy the given design constraints and criteria. The optimum designs integrate engineering science, basic science, economics, and occupational health and safety for the workers and the public.

**Prerequisite(s):** ENGG*3100, ENGG*3590

### ENGG*4280 Digital Process Control Design W (3-2) [0.75]
Design, analysis synthesis and simulation of process control and automation systems. Automation hardware, process compensation techniques and P.I.D. controllers, design and dynamics of final control elements, computer control and the microprocessor.

**Prerequisite(s):** ENGG*3410

### ENGG*4300 Food Processing Engineering Design F (3-2) [0.75]
Formulation of mathematical models to describe food processing operations and the response of foods to such operations. Process evaluation, development and computer-aided design of operations such as thermal processes and food freezing. The influence of water activity and structure on the enzymatic, cellular, organic and structural systems of foods. The properties of powders and particulate foods and mechanical operations with solid foods.

**Prerequisite(s):** ENGG*3260, ENGG*3830

### ENGG*4310 Wind and Solar Energy Design W (3-3) [0.75]
Students are required to design a wind and a solar energy system with output specifications determined by the instructor. Each design team will generate a proposal followed by the construction of a working prototype. The project will be staged with deliverables due on specified dates. (First offering - Winter 2013)

**Prerequisite(s):** ENGG*2050, ENGG*2450, ENGG*3100
**Co-requisite(s):** ENGG*4350

### ENGG*4330 Air Pollution Control F (3-2) [0.75]
Analysis and design of atmospheric pollution control techniques. Techniques considered include both in-process solutions as well as conventional end-of-pipe treatments. Pollutants covered include gaseous, particulate, metals and trace organics.

**Prerequisite(s):** ENGG*3180, ENGG*3260

### ENGG*4340 Solid and Hazardous Waste Management F (3-2) [0.50]

**Prerequisite(s):** ENGG*2560 or ENGG*2660

### ENGG*4350 Energy Economics W (3-2) [0.50]
The economics of energy production, delivery and distribution are studied in a lecture and case study format. Some of the major considerations include the economic-political relationship in the petroleum industry as well as the economics surrounding the production and delivery of bio-fuels and electricity. The various energy sources are studied from the viewpoint of the capital investment necessary to produce and deliver energy (First offering - Winter 2013)

**Prerequisite(s):** ENGG*2050, ENGG*3240

### ENGG*4360 Soil-Water Conservation Systems Design F (3-2) [0.75]
Properties of soils and land use governing the occurrence and magnitude of overland flow, soil erosion, infiltration, percolation of soil water, and variations in soil water storage. Design of soil and water management systems and structures to control soil erosion and protect water quality for environmentally and economically sustainable land use planning. Design of surface and subsurface drainage systems for rural land. Design of sprinkler and trickle irrigation systems.

**Prerequisite(s):** ENGG*2230, ENGG*3650, ENGG*3670

### ENGG*4370 Urban Water Systems Design F (3-2) [0.75]
Estimation of water quantity and quality needed for urban water supply and drainage. Design of water supply, pumping systems, pipe networks and distributed storage reservoirs from analysis of steady and transient, pressurized and free surface flow. Rates of generation of flows and pollutants to sanitary and storm sewers, design of buried pipe and open channel drainage systems with structures for flow and pollution control. Modeling of water systems for sustainable urban development.

**Prerequisite(s):** ENGG*2230, ENGG*3650

### ENGG*4380 Bioreactor Design W (3-2) [0.75]
Topics in this course include: modeling and design of batch and continuous bioreactors based on biological growth kinetics and mass balances; gas-liquid mass transfer for aeration and agitation; instrumentation; and control.

**Prerequisite(s):** ENGG*3160

### ENGG*4390 Bio-instrumentation Design F (3-2) [0.75]
Theory and selection criteria of devices used in measurements in biological systems; design of complete measurement systems including transducers, signal conditioning and recording components; error analysis. Differences between measurements in biological and physical systems.

**Prerequisite(s):** ENGG*3450

### ENGG*4400 Biomechanical Engineering Design F (3-2) [0.75]
Concept development, design, modeling, manufacture and testing of medical implants and tools. This course will investigate the biomechanical factors influencing design, regulatory issues, current development trends, and the possible future of medical implant technology.

**Prerequisite(s):** ENGG*2120
**Co-requisite(s):** ENGG*3170

### ENGG*4420 Real-time Systems Design F (3-3) [0.75]

**Prerequisite(s):** CIS*3110
### XII. Course Descriptions, Engineering

#### 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; Neurocontroller System Identification; Controller Training, Robust Neurocontroller; 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 introduced and the student is exposed to the use of commercial software for the solution of complex problems in fluid dynamics. (First offering Winter 2013.)

**Prerequisite(s):** ENGG*2230, ENGG*3370

#### 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 languages 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*2540 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 systems, networking, microprocessors, programmable logic controllers, communication systems and fault finding. (First offering Winter 2013.)

**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. (First offering Winter 2013.)

**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, CMOS gates (NAND, NOR); static latch 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*4560 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 core 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. (First offering - Winter 2013)

**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. (First offering - Winter 2013)

**Prerequisite(s):** CIS*2500, CIS*3490, ENGG*3700
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-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*11200 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 lecture. (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 Latinidades 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.
Prerequisite(s): ENGL*1080
Equate(s): ENGL*2060

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 reading and discussion. (Choices of approaches and texts will be determined by individual instructors.) Writing- and presentation-intensive course.
Prerequisite(s): ENGL*1080

ENGL*2120 Seminar: Literature and Social Change F,W (3-0) [0.50]
This course explores the social and cultural work that literary texts perform. Seminars will illuminate such categories as gender, sexuality, nation, race, ethnicity, and class; particular ways in which they are written into a limited number of literary works; and some of the critical debates surrounding our interpretations of those processes. (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 forces. (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*2550 North American Native Literatures W (3-0) [0.50]
This course explores selected 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*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
ENGL*2740 Children's Literature F,W (3-0) [0.50]
This course serves as an introduction to the critical study of children's literature and culture. Focusing 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.
Prerequisite(s): 1 of ENGL*1080, ENGL*1200, ENGL*1410

ENGL*2880 Women in Literature W (3-0) [0.50]
This variable-content course will involve the study and discussion of poems, stories, novels and plays by or about women. Reading-intensive course.
Prerequisite(s): 1 of ENGL*1080, ENGL*1200, ENGL*1410, WMST*1000

ENGL*2920 Creative Writing: Fiction U (3-0) [0.50]
An introduction to creative writing through practical experience, discussion, and the technical examination of models. Since admission to the course depends on the approval of the instructor, students must submit examples of their work to the instructor prior to registration. This course will be offered annually in either Fall or Winter. Check with the School.
Prerequisite(s): 1 of ENGL*1080, ENGL*1200, ENGL*1410
Restriction(s): Instructor consent required.

ENGL*2940 Creative Writing: Poetry U (3-0) [0.50]
As for ENGL*2920. (Note especially that students must submit examples of their work to the instructor prior to registration.) This course will be offered annually in either Fall or Winter. Check with the School.
Prerequisite(s): 1 of ENGL*1080, ENGL*1200, ENGL*1410
Restriction(s): Instructor consent required.

ENGL*3020 Shakespearean Contexts F (3-0) [0.50]
A study of a selection of Shakespeare's plays and poems in conjunction with a wide range of other texts. These may include, at the instructor's choice, 'source' narratives, subsequent adaptations, and plays and poems by predecessors or contemporaries, as well as other writings that shed light upon discursive contexts, performance practices, authorial and playhouse revision, issues of gender and subjectivity, and the reception of these plays by early modern audiences and readers. Reading-intensive course. (Offered in even-numbered years.)
Prerequisite(s): 1.00 credits in English or (THST*2010, THST*2120)

ENGL*3040 U.S. Latina/o Literature F (3-0) [0.50]
This course focuses on an English-language literature of a particular Latina/o community (e.g. Chicana/os, 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.)
Prerequisite(s): (1 of THST*1040, ENGL*1080, ENGL*1200), ENGL*2040

ENGL*3050 History of the English Language U (3-0) [0.50]
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 of 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.
Prerequisite(s): 1.00 credits in English.

ENGL*3120 Shakespearean Receptions F (3-0) [0.50]
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.)
Prerequisite(s): 1.00 credits in English or (THST*2010, THST*2120)

ENGL*3170 Elizabethan Literary Culture: Chastity and Power W (3-0) [0.50]
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 Shakespeare, Wyatt, Surrey, Mary Stuart, the Sidneys, Spenser, Marlowe, Shakespeare, Raleigh, Aemilia Lanzer, Mary Wroth, Elizabeth I, Jonson, Donne, and Herbert). Reading-intensive course. (Offered in odd-numbered years.)
Prerequisite(s): 1.00 credits in English.

ENGL*3190 Poetics and Politics in Early Modern England F (3-0) [0.50]
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 politics of humanism, transgression, rhetoric, religion, rights, and the relation between political subjection and literary subjectivity; the literary contributions will be studied in the light of a range of different approaches. Reading-intensive course. (Offered in odd-numbered years.)
Prerequisite(s): 1.00 credits in English.

ENGL*3220 Representing Britain: 18th- & 19th- Century Literature F (3-0) [0.50]
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 literature of civil war, constitutionalism and revolution; satire and society; writings emerging from suffrage 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.)
Prerequisite(s): 1.00 credits in English.

ENGL*3260 Writing Gender & Family: 18th- and 19th- Century Literature W (3-0) [0.50]
This course will explore texts which engage with such matters as the shifting constructions of the family, changing sexual practices, ideals of femininity and masculinity, and the significance of the separation of spheres in eighteenth- and nineteenth-century writing. Focal points may include: the role of desire in narrative; literary representations of gender and economics, of gender and medicine, and of pivotal figures such as the prostitute, the governess, the rake, or the gentleman. Reading-intensive course. (Offered in odd-numbered years.)
Prerequisite(s): 1.00 credits in English.

ENGL*3280 Old English Literature U (3-0) [0.50]
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, "The Battle of Maldon", elegies such as "The Seafarer", riddling poems and religious poems. (Offered in alternate years.)
Prerequisite(s): 1.00 credits in English.

ENGL*3300 Restoration to Romanticism: Forging the Nation F (3-0) [0.50]
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.)
Prerequisite(s): 1.00 credits in English.

ENGL*3320 Romanticism to Victorianism: Culture and Conformity F (3-0) [0.50]
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 "others"; class and conflict; protest and power; the politics of gender and medicine; 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.)
Prerequisite(s): 1.00 credits in English.

ENGL*3340 British Imperial Culture F (3-0) [0.50]
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.)
Prerequisite(s): 1.00 credits in English.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL*3360</td>
<td>Scottish Literary Cultures F (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3380</td>
<td>Studies in the History of Literary Production W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3420</td>
<td>20th- &amp; 21st-Century Drama W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English or (THST<em>2100, THST</em>2120)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3460</td>
<td>Literature in London U (2-3) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>Admission to the London Semester.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3470</td>
<td>Twentieth-Century British Literature I W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3480</td>
<td>Twentieth-Century British Literature II F (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3540</td>
<td>Writing the United States W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3550</td>
<td>Modern United States Literatures W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3560</td>
<td>Medieval Literature W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3570</td>
<td>Chaucer in Context F (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3630</td>
<td>Writing Canada: Forging the Nation W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3670</td>
<td>Twentieth-Century Canadian Literature and Criticism F (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3680</td>
<td>20th- &amp; 21st-Century Canadian Literature and Criticism F (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3690</td>
<td>History of Literary Criticism F (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3750</td>
<td>Studies in Postcolonial Literatures W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3760</td>
<td>Atlantic and Mediterranean Worlds W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3860</td>
<td>Topics in Literary and Cultural Studies U (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3870</td>
<td>Topics in Literary and Cultural Studies U (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL*3880</td>
<td>Topics in Literary and Cultural Studies U (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>1.00 credits in English.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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*4050 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 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*4070 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 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*4080 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*4310 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.

ENGL*4320 Special Studies in English U (3-0) [1.00]
This is a seminar designed to provide students 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.

ENGL*4400 Postcolonial Literatures U (3-0) [1.00]
This course provides the opportunity for intensive study of a representative selection of literature in English by writers from Africa, India, the Caribbean, Australia, and the Pacific. 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*4200 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*4410 Modern & Contemporary Literatures U (3-0) [1.00]
This course provides the opportunity for a study of significant works in fiction, poetry, and drama that demonstrate new approaches in form and content characteristic of 20th- and 21st-century writings in English. 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*4210 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*4420 Women's Writings U (3-0) [1.00]
This course provides for intensive study of issues relating to the aesthetic strategies, such as those associated with structure, imagery, and language, devised by women writers to reflect women's experience and perceptions. 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): Restricted to English and Women's Studies majors; ENGL*4210 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*4500 Non-fiction prose U (3-0) [1.00]
This course offers an intensive study of non-fiction prose. Topics to be explored may include the roles and contexts of public and/or private writing, the role of literary criticism in reading texts sometimes marked as non-literary, the history of non-fictional prose forms, or the formal or ideological uses of the distinctions between fact and fiction.
Prerequisite(s): ENGL*2080, (ENGL*2120 or ENGL*2130), (ENGL*3940 or ENGL*3960)
Restriction(s): ENGL*4300 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*4720 Creative Writing: Prose/Poetry U (3-0) [0.50]
A development and extension of the creative writing/reading skills and techniques introduced in ENGL*2920 and ENGL*2940. This course will involve the generation and revision of challenging new work, sophisticated critique of the work of other students, and focused discussion of the cultural, social, and political issues in which the practice of creative writing is enmeshed. Admission to the course is normally dependent on the successful completion of ENGL*2920 or ENGL*2940 and, following the submission of a portfolio of new work, the approval of the instructor.
Prerequisite(s): ENGL*2920 or ENGL*2940
Restriction(s): Instructor consent required.

ENGL*4810 Directed Reading S,F,W (3-0) [0.50]
This course is intended particularly as preparation for ENGL*4910. The student will design a course of readings and assignments with the instructor, whose consent must first be obtained. This option is intended only for students who have performed particularly well within the honours program. Exceptional students may take ENGL*4810 in preparation for a ENGL*4910 creative writing project, 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Year and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL*4880 20th- &amp; 21st-Century Poetry U (3-0) [1.00]</td>
<td>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.</td>
<td>1.00</td>
<td>Prerequisite(s): ENGL<em>2080, (ENGL</em>2120 or ENGL<em>2130), (ENGL</em>3940 or ENGL<em>3960) Restriction(s): ENGL</em>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.</td>
</tr>
<tr>
<td>ENGL*4890 Contemporary Literary Theory U (3-0) [1.00]</td>
<td>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.</td>
<td>1.00</td>
<td>Prerequisite(s): ENGL<em>2080, (ENGL</em>2120 or ENGL<em>2130), (ENGL</em>3940 or ENGL<em>3960) Restriction(s): ENGL</em>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.</td>
</tr>
<tr>
<td>ENGL*4910 Honours English Essay S,F,W (3-0) [0.50]</td>
<td>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.</td>
<td>0.50</td>
<td>Prerequisite(s): ENGL<em>2080, (ENGL</em>2120 or ENGL<em>2130), (ENGL</em>3940 or ENGL*3960) Restriction(s): Instructor consent required.</td>
</tr>
</tbody>
</table>
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.

**Prerequisite(s):** BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)

**ENVB*2040 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.

**Prerequisite(s):** BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)

**ENVB*2100 Problem-Solving in Environmental Biology W (2-2) [0.50]**
This course provides an introduction to current issues and problems in environmental biology. Methodologies of addressing environmental issues and concerns will be critically examined. Project design, information retrieval and organization, and the interpretation of statistical data will be covered. Oral and written presentations, both individual and group will be emphasized.

**Prerequisite(s):** BIOL*1040, (CHEM*1050 or CHEM*1310), MATH*1080

**ENVB*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.)

**ENVB*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.)

**Prerequisite(s):** 1 of BIOL*2060, BOT*2050, BIOL*3110

**ENVB*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.

**Prerequisite(s):** BIOL*1040 or BIOL*1070, (1 of BIOL*2060, BIOL*3110, BOT*2050), CHEM*1050

**ENVB*3030 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.)

**Prerequisite(s):** [BIOL*1040 or 2 of BIOL*1070, BIOL*1080, BIOL*1090] (CHEM*1040 or CHEM*2300)

**ENVB*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.)

**Prerequisite(s):** BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)

**ENVB*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.

**Prerequisite(s):** BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090)

**ENVB*3160 Management of Turfgrass Diseases F (2-2) [0.50]**
In this course ecology of turfgrass diseases and cultural methods of management will be emphasized, in addition to field recognition and microscopic diagnosis of diseases. Advances in biological and chemical control measures and their impact on turfgrass ecosystems and surrounding environments will also be discussed.

**Prerequisite(s):** HORT*2450

**Restriction(s):** DTM*3200

**ENVB*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.

**Prerequisite(s):** BIOL*1040 or BIOL*1070

**ENVB*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.

**Prerequisite(s):** ENVB*2030

**ENVB*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.

**Prerequisite(s):** ENVB*2030 or BOT*2100

**ENVB*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.

**Prerequisite(s):** ENVB*2030, (1 of BOT*2050, BIOL*2060, BIOL*3110)

**ENVB*3280 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.

**Prerequisite(s):** MBG*2580, (MBG*2000 or MBG*2040)

**ENVB*3330 Ecosystem Processes and Applications W (3-0) [0.50]**
An ecosystem approach that treats living organisms and physical elements of the environment as components of a single, integrated system is introduced in this course. The important processes that characterize ecosystems, tracing water, carbon and nutrients from their abiotic sources to their cycles through plants, animals and decomposers will be examined. Human activity is a dominant influence on these cycles and this influence is surveyed in several highly impacted ecosystems.

**Prerequisite(s):** [BIOL*1040 or (2 of BIOL*1070, BIOL*1080, BIOL*1090), (1 of BIOL*2060, BIOL*3110, BOT*2050), CHEM*1050]

**ENVB*4020 Water Quality and Environmental Management F (3-2) [0.50]**
This course will introduce the student to issues pertaining to water quality, how to assess impacts in aquatic systems, and strategies for the management of water resources. Examples and case studies will draw from agricultural, industrial and municipal sources. Topics include: historical perspectives, current issues in water pollution, methods to assess water quality, restoration and rehabilitation of impacted aquatic habitats, and risk assessment and management of water resources.

**Prerequisite(s):** BIOL*2060 or (ENVM*1100, ENVM*1150)
ENVB*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.  
Prerequisite(s): 1 of BIOL*3110, ENVB*3090

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, MICR*3220

ENVB*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).  
Prerequisite(s): 1 of CROP*3300, CROP*3310, ENVB*2030, ENVB*3090, TOX*4550

ENVB*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.)  
Prerequisite(s): ENVB*3040

ENVB*4220 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.)  
Prerequisite(s): ENVB*3090

ENVB*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.  
Prerequisite(s): 0.50 credits in biochemistry

ENVB*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): ENVB*3090 or ENVB*4040  
Restriction(s): Instructor consent required.

ENVB*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.  
Prerequisite(s): ENVB*3090

ENVB*4550 Toxicological Risk Characterization W (3-0) [0.50]  
This is a biologically based, advanced course that will give students working knowledge of current processes and techniques for toxicological risk characterization. The course material will cover the topics of problem definition, effect characterization, exposure characterization, risk assessment, and risk management decision making. (Also listed as TOX*4550.)  
Prerequisite(s): ENVB*3030, TOX*2000  
Equates: TOX*4550

ENVB*4780 Forest Ecology F (3-3) [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.  
Prerequisite(s): ENVB*2030, (1 of BOT*2050, BIOL*2060, BIOL*3110)
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 B.B.R.M.
**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, Kemptville

**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 B.B.R.M. Environmental Management major.
**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*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):** SOIL*2010
**Restriction(s):** Registered in B.B.R.M.
**Location(s):** Ridgeway

**ENVM*2060 Sewage and Wastewater Treatment F (3-2) [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/operational 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/operational 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 B.B.R.M. Environmental Management
**Location(s):** Ridgeway

**ENVM*2080 Industrial Waste Management W (3-2) [0.50]**

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):** Ridgeway
### ENVM*2090 Spills Response Planning W (3-2) [0.50]

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) [0.50]

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
**Environmental Sciences**

*School of Environmental Sciences*

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*1020 Introduction to Environmental Sciences F (3-2) [0.50]**

Students will be shown how to recruit their skills as scientists to identify, characterize, and analyze environmental problems. The course will emphasize the history of environmental science by focusing on how problems were first identified and then solved at different stages of human understanding of biology, chemistry, physics, economics, law, and religion. Students will be taught to communicate their understanding of environmental science to specialized audiences and to the public.

*Restriction(s):* Registration in the B.Sc. (Env.) program.

**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.

*Prerequisite(s):* ENVS*1020, GEOG*1300

*Restriction(s):* Registration in the B.Sc. (Env.) program will be restricted to only those students in BBRM:EM, BSES, BSAG or BSCH.

**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. A pass/fail grade will be assigned upon completion of the course.

*Prerequisite(s):* 12.50 credits including ENVS*1020

*Restriction(s):* Director consent required.

**ENVS*3150 Aquatic Systems W (3-2) [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.

*Prerequisite(s):* 11.00 credits including ENVS*1020, ENVS*2150, CHEM*1050

*Restriction(s):* Registration in the B.Sc. (Env.) program.

**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. 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.

*Prerequisite(s):* Must have completed a minimum of 10.00 credits. Minimum cumulative average of 70%.

*Restriction(s):* ENVS*3410. Instructor consent required. Restricted to students in BBRM:EM, BSES, BSAG 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.

*Prerequisite(s):* ENVS*3410. Must have completed a minimum of 10.00 credits. Minimum cumulative average of 70%.

*Restriction(s):* ENVS*3430. Instructor consent required. Registration in BBRM:EM, BSES, BSAG 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.

*Prerequisite(s):* ENVS*3410, ENVS*3420. Instructor consent required. Registration in BBRM:EM, BSES, BSAG or BSCH.

**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.

*Prerequisite(s):* Registration in semester 6 or 7 of the B.Sc.(Env.) degree program.

**ENVS*4012 Project in Environmental Sciences 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.

*Prerequisite(s):* Registration in semester 6 or 7 of the B.Sc.(Env.) degree program.

**ENVS*4012 Project in Environmental Sciences W (0-3) [0.50]**

Second part of the two-semester course ENVS*4011/2. Refer to ENVS*4011/2 for course description.

*Prerequisite(s):* ENVS*4011

**ENVS*4300 Environmental Law & Regulation F (5-0) [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.

*Prerequisite(s):* 14.00 credits

**Restriction(s):** Registration in the B.Sc. (Env.) program.

**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.

*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 BSES, BSAG, BSCH or BBRM.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS*4420</td>
<td>Advanced Independent Research II</td>
<td>S,F,W (0-12) [1.00]</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s):</td>
<td>ENVS*4410. Must have completed a minimum of 15.00 credits.</td>
<td>Minimum cumulative average of 70%.</td>
</tr>
<tr>
<td></td>
<td>Restriction(s):</td>
<td>ENVS*4430. Instructor consent required. Registration in BSES, BSAG, BSCH or BBRM.</td>
<td></td>
</tr>
<tr>
<td>ENVS*4430</td>
<td>Advanced Independent Research</td>
<td>S,F,W (0-24) [2.00]</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s):</td>
<td>(ENVS<em>3410, ENVS</em>3420) or ENVS*3430. Must have completed a minimum of 15.00 credits. Minimum cumulative average of 70%.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Restriction(s):</td>
<td>ENVS<em>4410, ENVS</em>4420. Instructor consent required. Registration in BSES, BSAG, BSCH or BBRM.</td>
<td></td>
</tr>
</tbody>
</table>


Equine

Ontario Agricultural College, Department of Poultry Sciences

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 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.
Restriction(s): Registration in B.B.R.M. Equine Management
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.
Pre requisite(s): EQN*1020
Restriction(s): Registration in B.B.R.M. Equine Management
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
Restriction(s): Registration in B.B.R.M. Equine Management
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, 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.
Restriction(s): Registration in B.B.R.M. Equine Management
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.
Pre requisite(s): EQN*1060
Restriction(s): Registration in B.B.R.M. Equine Management
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.
Restriction(s): Registration in B.B.R.M. Equine Management
Location(s): Kemptville

EQN*2010 Stable Management F (2-2) [0.50]
This course introduces students to the principles of stable management and their application in the horse industry. A historical perspective of stable management is examined, along with an overview of the development of modern stables. The course will also cover current practices of animal welfare and EQP application in stables. Required activities outside of regularly scheduled class hours will be assigned. Students will assist in the planning and staging of Equestrian Centre activities.
Pre requisite(s): EQN*1030, ENVY*1090
Restriction(s): Registration in B.B.R.M. Equine Management
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.
Pre requisite(s): BIOL*1040
Restriction(s): Registration in B.B.R.M. Equine Management
Location(s): Kemptville

EQN*2100 Equine Industry Trends and Issues I W (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.
Pre requisite(s): EQN*1100
Restriction(s): Registration in B.B.R.M. Equine Management
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 of North America in August, 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, accommodation and meals. 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.
Pre requisite(s): EQN*1050
Restriction(s): Registration in B.B.R.M. Equine Management. Instructor consent required.
Location(s): Kemptville

EQN*3010 Equine Exercise Physiology 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 the range of equine performance situations.
Pre requisite(s): ANSC*3080 or (EQN*2040, EQN*2050)
Location(s): Guelph

EQN*4020 Feeding the Performance Horse W (3-0) [0.50]
This course provides hands-on learning in essential horse care and handling techniques. The emphasis is on daily 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.
Pre requisite(s): BIO*1040
Restriction(s): Registration in B.B.R.M. Equine Management
Location(s): Kemptville

EQN*2020 Stable Management F (2-2) [0.50]
This course introduces students to the principles of stable management and their application in the horse industry. A historical perspective of stable management is examined, along with an overview of the development of modern stables. The course will also cover current practices of animal welfare and EQP application in stables. Required activities outside of regularly scheduled class hours will be assigned. Students will assist in the planning and staging of Equestrian Centre activities.
Pre requisite(s): EQN*1030, ENVY*1090
Restriction(s): Registration in B.B.R.M. Equine Management
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.
Pre requisite(s): BIOL*1040
Restriction(s): Registration in B.B.R.M. Equine Management
Location(s): Kemptville
## European Studies

**EURO*1050 The Emergence of a United Europe W (3-0) [0.50]**

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.

**EURO*1200 European Culture from the Mid 18th to the Mid 19th Century F (4-0) [0.50]**

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).

**Restriction(s):** EURO*2000

**EURO*2200 European Culture from the Mid 19th Century to the 1920's F (3-0) [0.50]**

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).

**Prerequisite(s):** EURO*1200 is recommended

**Restriction(s):** EURO*1020

**EURO*2300 European Culture since 1920 W (3-0) [0.50]**

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).

**Prerequisite(s):** EURO*1200 and EURO*2200 are recommended

**Restriction(s):** EURO*1020

**EURO*3150 Topics in European Film W (3-0) [0.50]**

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.)

**EURO*4600 Honours Seminar in European Studies W (3-0) [0.50]**

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.

**Prerequisite(s):** 10.00 credits, (2 of ARTH*1520, EURO*1050, EURO*1200, EURO*2200, EURO*2300, HIST*2510, HIST*3090, MUSC*1060, POLS*3450)

**EURO*4740 Research Project in European Studies F,W (3-0) [0.50]**

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*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*4740. See the Coordinator for the European Studies program for more information.

**Prerequisite(s):** EURO*1020, EURO*1050, EURO*2000, EURO*2070, Approval of the Coordinator for the European Studies Program.
### 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.senecacollege.ca/](http://www.senecacollege.ca/). All XSEN*XXXX courses are limited to students in the B.Sc.(Tech.) program or B.Sc. Biological and Pharmaceutical Chemistry.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
<th>Restriction(s)</th>
<th>External Course Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSEN*3070</td>
<td>Pharmaceutical Product Formulations F,W (2-3) [0.50]</td>
<td>(CHEM*3750)</td>
<td>XSEN*4030 Restricted to B.Sc. (TECH) and B.Sc. (BPCH)</td>
<td>Seneca #PPE-633</td>
</tr>
<tr>
<td>XSEN*3080</td>
<td>Pharmaceutical Manufacturing F,W (2-3) [0.50]</td>
<td>(CHEM*3750)</td>
<td>XSEN*4040 Restricted to B.Sc. (TECH) and B.Sc. (BPCH)</td>
<td>Seneca #PYM-633</td>
</tr>
<tr>
<td>XSEN*3090</td>
<td>Biopharmaceuticals F,W (3-0) [0.50]</td>
<td>(CHEM*2700)</td>
<td></td>
<td>Seneca #BPH-633</td>
</tr>
<tr>
<td>XSEN*3100</td>
<td>Communications Fundamentals F,W (3-2) [0.50]</td>
<td>(CIS<em>2500, PHYS</em>2040)</td>
<td></td>
<td>Seneca #COM 455</td>
</tr>
<tr>
<td>XSEN*3120</td>
<td>Microprocessors I F,W (3-2) [0.50]</td>
<td>(CIS*2500)</td>
<td></td>
<td>Seneca #MCO 455</td>
</tr>
<tr>
<td>XSEN*3130</td>
<td>Object Oriented Programming Using C++ F,W (2-2) [0.50]</td>
<td>(CIS<em>1500, CIS</em>2030 recommended)</td>
<td></td>
<td>Seneca #DPR-355</td>
</tr>
<tr>
<td>XSEN*4010</td>
<td>Pharmaceutical Calculations W (3-0) [0.50]</td>
<td>(BIOC<em>3570, CHEM</em>2400)</td>
<td></td>
<td>Seneca #PHC-533</td>
</tr>
</tbody>
</table>

### XII. Course Descriptions, External Courses

**XSEN*3010 Effective Business and Technical Writing F (3-0) [0.50]**

This subject introduces the study of technical writing, including specified formats such as memoranda, letters, proposals, and informal reports. The course applies and develops the skills of technical writing in a series of writing assignments placing emphasis on brevity, clarity, conciseness, unity and coherence - all essential to good technical communication. Basic research skills and effective oral communications are also covered.

**Course offered at Guelph.**

**External Course Code(s):** Seneca #SES-391

**XSEN*3020 Management Studies: EQ and the New Workplace W (3-0) [0.50]**

The major competitive advantage in today's new workplace is people. While the traditional set of technical and managerial skills is still essential, more critical are relationship skills and leadership skills. This course positions the key relationship skills essential to personal and organizational excellence and the real leaders initiate and facilitate the many challenges that require emotional resiliency. This course is taught at Seneca College.

**External Course Code(s):** Seneca #EQQ-501

**XSEN*3030 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 pharmacopoeial compendia (USP, BP, EP). Practical aspects include physical, wet chemical and instrumental analyses of drug substances, in-process materials and finished products using official pharmacopoeial methodologies. This course is taught at Seneca College.

**Prerequisite(s):** BIOC*2580, CHEM*2400

**Restriction(s):** Restricted to B.Sc. (TECH) and B.Sc. (BPCH)

**External Course Code(s):** Seneca #PHA-333

**XSEN*3040 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 B.Sc. (TECH) and B.Sc. (BPCH)

**External Course Code(s):** Seneca #PHT-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*4030 Restricted to B.Sc. (TECH) and B.Sc. (BPCH)

**External Course Code(s):** Seneca #PPE-633

**XSEN*3080 Pharmaceutical Manufacturing F,W (2-3) [0.50]**

This course is an introduction to the important principles and methods related to the production of pharmaceuticals. Topics include methods of manufacture of important dosage forms, regulations governing various dosage forms, good manufacturing practice as defined by regulatory bodies and an overview of the manufacturing plant during the various stages of production with emphasis on GMP. This course is taught at Seneca College.

**Prerequisite(s):** BIOC*3570, CHEM*3750

**Restriction(s):** XSEN*4040 Restricted to B.Sc. (TECH) and B.Sc. (BPCH)

**External Course Code(s):** Seneca #PYM-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*4040, Registration in B.Sc. (TECH) or B.Sc. (BPCH) Major

**External Course Code(s):** Seneca #BPH-633

**XSEN*3100 Communications Fundamentals F,W (3-2) [0.50]**

This is an overview course that provides coverage of major analog and digital communications topics, including both analog and digital modulation principles and the nature and behavior of pulse waveforms. This course is taught at Seneca College.

**External Course Code(s):** Seneca #COM 455

**XSEN*3120 Microprocessors I F,W (3-2) [0.50]**

This introductory microcontroller subject deals with both the hardware and software of 8-bit devices. The primary example used is the Motorola MC68HC11. The subject examines two major areas: introductory computer/microcontroller concepts, and assembler language programming. A substantial amount of time is devoted to practical laboratory work. This course is taught at Seneca College.

**Prerequisite(s):** CIS*2500, PHYS*2040

**External Course Code(s):** Seneca #MCO 455

**XSEN*3130 Object Oriented Programming Using C++ F,W (2-2) [0.50]**

The course uses the C++ programming language as a tool to implement Object Oriented Programming (OOP) concepts. The OOP concepts such as Classes, Member and Friend Functions, Constructor and Destructor Functions, Operator Overloading, Inheritance, Composition, Virtual Functions and Polymorphism, Stream IO, Templates and Exception Handling are covered, as well as the OOP methods. This course is taught at Seneca College.

**Prerequisite(s):** CIS*2500

**External Course Code(s):** Seneca #PRG 355

**XSEN*3140 Operating Systems F,W (2-2) [0.50]**

This subject explores the system concepts, command languages and application of several operating system platforms such as UNIX. This course is taught at Seneca College.

**Prerequisite(s):** CIS*1500

**External Course Code(s):** Seneca #DPR-355

**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: March 15, 2014

2011-2012 Undergraduate Calendar
### XII. Course Descriptions, External Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XSEN*4020</td>
<td>Pharmaceutical Organic Chemistry</td>
<td>1-3</td>
<td>The determination of the structure of organic compounds using spectroscopic methods such as N.M.R. and mass spectroscopy is 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.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>CHEM*3750</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Course Code(s):</td>
<td>Seneca #PAC-633</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSEN*4100</td>
<td>Event Driven Programming and Visual Basic</td>
<td>2-2</td>
<td>This course covers the essential programming concepts supported by the Visual Basic programming language, including: object-oriented programming, database management, activeX controls, file I/O, user-defined data types. Various objects (forms, modules and controls) provided by Visual Basic will be used. The course will introduce the fundamental concepts of the event-driven and visual programming. Visual Basic Professional Edition will be used as the integrated development environment. The interaction between Visual Basic and various DBMS software packages will be introduced. This course is taught at Seneca College.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>XSEN*3130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Course Code(s):</td>
<td>Seneca #PRG-455</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSEN*4120</td>
<td>Data Communications</td>
<td>4-2</td>
<td>This course has been designed to provide an in-depth understanding of the underlying principles of the rapidly expanding and changing discipline of Data Communications. The following topics in this subject are discussed: terminology, components, network design and configurations, transmission media including fibre optical design methods, protocols, topologies, architectures, private and public network strategies and LAN vendors. This course is taught at Seneca College.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>XSEN*3100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Course Code(s):</td>
<td>Seneca #DCM-555</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSEN*4130</td>
<td>Networking Essentials</td>
<td>1-3</td>
<td>This course provides students with good coverage of networking principles, including network installation and management basics using current operating systems. The course covers CNAA level 1 material. This course is taught at Seneca College.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>CIS<em>2500, XSEN</em>3140</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Course Code(s):</td>
<td>Seneca #NET-455</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSEN*4140</td>
<td>Technical and Personal Communications</td>
<td>4-0</td>
<td>This course combines reading, writing, and basic research skills and applied them to technical materials and situations. Today, technical firms insist on strong communication skills in their employees, not just technical competence. Oral and written presentations of material, as well as project-related research, will be required elements of this course. This course is taught at Seneca College.</td>
</tr>
<tr>
<td>External Course Code(s):</td>
<td></td>
<td>Seneca #TPC-455</td>
<td></td>
</tr>
<tr>
<td>XSEN*4160</td>
<td>Network Servers and Peripherals</td>
<td>2-2</td>
<td>This course introduces the student to multi-OS network environments with emphasis on operating system configuration, troubleshooting, network administration and maintenance. Specific topics include Windows 2000/XP/2003 and Linux installation and/or configuration, server setup and interoperability in multi-OS network environments, backup systems, printer systems, network attached storage and network security. In conjunction with the microcomputer repair course MIR355 and operating system/networking knowledge from other courses in the program, this course also prepares students for SMB (small and medium business) network consulting. This course is taught at Seneca College.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>XSEN*4130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Course Code(s):</td>
<td>Seneca #NSP-655</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSEN*4180</td>
<td>Real-Time Embedded Microcontroller Applications</td>
<td>3-3</td>
<td>This course will concentrate on the chip functionality of the MCHCS6812 series of microcontrollers. The intent of the course will be to understand and implement the following chip functions in real time applications: Enhanced Capture Timer, Output Compare, Input Capture, Pulse Width Modulation, Serial Communications, Analog to Digital Conversion, Digital to Analog Conversion. Projects will make use of a PC based Human Machine Interface (HMI) design programmed by the student in Visual Basic or Visual C++ that is used to serially (via the SCI) collect data from and control functions in the microcontroller. This course is taught at Seneca College.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>XSEN*3120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equate(s):</td>
<td>XSEN*4150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Course Code(s):</td>
<td>Seneca #MCO-556</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XSEN*4190</td>
<td>Data Acquisition, Interfacing and Control</td>
<td>3-2</td>
<td>This course introduces students to the practical aspects of using PC for real-time data acquisition and digital control. It develops the skills in programming the PC interfaces such as serial, USB, and Ethernet for Data Acquisition and Control (DA&amp;C) for applications such as servo control, and provides the fundamentals of I/O techniques and PID (Proportional + Integral + Derivative) control. A lab environment which consists of servos, servo digital boards, units of interfacing ports, digital oscilloscopes, and PCs is set up for hands-on lab assignments and project. This course is taught at Seneca.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>CIS<em>2500, MATH</em>2170</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equate(s):</td>
<td>XSEN*4110</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Course Code(s):</td>
<td>Seneca #DAC554</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 course, 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 (CYE, 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, 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 behaviour 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): (PSYC*1100 or PSYC*1200), (1 of ANTH*1150, FRHD*1010, SOC*1100)
Equate(s): CSTU*2260

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): FRHD*1010 or (PSYC*1200 and ANTH*1150) or (PSYC*1200 and SOC*1100)
Equate(s): CSTU*2270
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*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 examines 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*3120 Families in Canadian Context W (3-0) [0.50]
Canadian families are studied from a structural perspective and are placed in social and historical context. Topics include structural variations in family form, work roles within and outside the family, the structural significance of marriage and parenthood, and social policies affecting families.
Prerequisite(s): FRHD*1020

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 WCS major and some restrictions may apply during some time periods.
XII. Course Descriptions, Family Relations and Human Development

FRHD*3180 Observation and Assessment Laboratory F,W (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*2110
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)

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
Equivalent(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.

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.

FRHD*3290 Practicum I: Adult Development F,W (3-12) [1.00]
This course offers students an opportunity to participate in seminar and supervised field placement in health and social service agencies. The practicum and seminar will develop students’ helping roles in agencies and facilitate the integration and application of theoretical knowledge from previous course work with practice. It will also provide opportunities for students to work directly with individuals and/or groups and to participate in on-going programs or services. Students wishing to enrol in this course must consult with the instructor during the course selection period.
Prerequisite(s): FRHD*2350, FRHD*3400
Restriction(s): Restricted to students in B.A.Sc. ADEV, ADEV:C, ADFW, ADFW:C. Instructor consent required.

FRHD*3400 Communication and Counselling Skills F,W (3-0) [0.50]
This course is an examination and analysis of the theories and methods of communication as applied within the processes of family counseling and consultation.
Prerequisite(s): 9.50 credits including (FRHD*1020 or FRHD*1100)
Restriction(s): This is a Priority Access Course and some restrictions may apply during some time periods.

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

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.

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.

FRHD*4090 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.

FRHD*4160 Family Relations in Gerontology F (3-0) [0.50]
A critical examination of selected issues affecting the well-being of the elderly in Canada. Topics will include such issues as the nature and types of community support systems for the aged, and institutionalization and its alternatives.
Prerequisite(s): FRHD*3060

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.

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): FRHD*2110, FRHD*3070, FRHD*3180
Restriction(s): Registration in the B.A.Sc. program (Child, Youth and Family or Child, Youth and Family Co-op majors).

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.

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 concepts, 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.

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
Equivalent(s): CSTU*4210

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

FRHD*4260 Social Policy and Gerontology W (3-0) [0.50]
An examination of aging and adult development in relation to social policy with special reference to families.
Prerequisite(s): FRHD*2060
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRHD*4290</td>
<td>Practicum II: Adult Development F,W (3-16) [1.00]</td>
<td></td>
<td>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. <strong>Prerequisite(s):</strong> FRHD*3290 <strong>Restriction(s):</strong> Restricted to students in B.A.Sc. ADEV, ADEV:C, ADFW, ADFW:C. Instructor consent required.</td>
</tr>
<tr>
<td>FRHD*4310</td>
<td>Professional Issues F (3-0) [0.50]</td>
<td></td>
<td>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. <strong>Prerequisite(s):</strong> FRHD*3400</td>
</tr>
<tr>
<td>FRHD*4320</td>
<td>Social Policies for Children, Youth and Families W (3-0) [0.50]</td>
<td></td>
<td>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. <strong>Prerequisite(s):</strong> FRHD*3040</td>
</tr>
<tr>
<td>FRHD*4400</td>
<td>Youth, Risk and Resilience W (3-0) [0.50]</td>
<td></td>
<td>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. <strong>Prerequisite(s):</strong> 15 credits including FRHD<em>2110, FRHD</em>2280</td>
</tr>
<tr>
<td>FRHD*4810</td>
<td>Thesis I U (3-0) [0.50]</td>
<td></td>
<td>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. <strong>Prerequisite(s):</strong> FRHD<em>3070 <strong>Equate(s):</strong> CSTU</em>4810 <strong>Restriction(s):</strong> Instructor consent required.</td>
</tr>
<tr>
<td>FRHD*4910</td>
<td>Thesis II U (6-0) [1.00]</td>
<td></td>
<td>The student will conduct and write an undergraduate thesis under the direction of a faculty member. <strong>Prerequisite(s):</strong> FRHD<em>4810 <strong>Equate(s):</strong> FRHD</em>4911/2</td>
</tr>
</tbody>
</table>
**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 ENGG*2660 or [FOOD*2620, (MICR*2030 or MICR*2420)]

**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 B.A.Sc. AHN major.

**FOOD*2400 Introduction to Food Chemistry S (3-0) [0.50]**

The chemistry and biochemistry of the major components of foods (lipids, 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 B.Sc. FOOD or 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*1020, CHEM*2580, FOOD*3230 Not available to students registered in B.Sc. FOOD or 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 in the B.Sc.(Agr.) program 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, (BIOL*1040 or BIOL*1080), CHEM*1040

**Restriction(s):** FOOD*2010, FOOD*2150, NUTR*2150. Restricted to students in B.Sc.(Agr.)

**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 dryers), 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. Intrinsinc 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 microbiological 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 (3-0) [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  
*Equate(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*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, Agriculture and Resource Economics

FARE*1100 Introduction to Business W (3-0) [0.50]
This course provides an overview as well as a foundation in the fundamentals of business management. The basic functions of business and management to be examined include: operations, human resources, marketing, finance, and strategic management. Small Business and entrepreneurship are also studied, along with other forms of business ownership, competition within a global economy, and the political and economic realities of doing business in Canada today. Students will develop basic competencies in business management through assignments and case studies requiring the practice of learned theory.
Equate(s): AGEC*1100, BADM*1000
Restriction(s): Registration in BBRM.

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*2050 Markets for Molecules W (3-0) [0.50]
This course explores markets and value chains for products and processes embodying new molecules and compounds. Economic, social and regulatory dimensions are considered in the context of molecular innovation and commercialization. Attention focuses on the role, importance and impact of consumers, entrepreneurs, governments and international agencies in shaping these markets and value chains.
Prerequisite(s): 5.00 credits
Equate(s): AGEC*2050

FARE*2410 Agrifood Markets and Policy W (3-0) [0.50]
Students will be provided with an introduction to agrifood markets, policies and institutions. Focus will be placed on: the role and function of futures markets; domestic agrifood policies; and agrifood trade policies, instruments and institutions. Economic analysis of contemporary issues in agrifood markets will be emphasized.
Prerequisite(s): AGR*2400
Co-requisite(s): ECON*2310
Equate(s): AGEC*2410
Restriction(s): AGR*2402

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): ECON*1050
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 decision. 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, ECON*2310
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): Priority Access course. Enrolment may be restricted to particular programs or specializations. See department for more information.

FARE*3400 Agribusiness Financial Management F (3-0) [0.50]
The course will focus on the application of principles and tools of finance to managerial problems in agribusiness, food and resource industries. The focus is on evaluating and controlling profitability, growth, risks, and liquidity in agribusiness firms. Key concepts covered in the course include, credit, leverage, capital budgets, and capital costs. These concepts are applied using financial analysis and developed in the context of farming and agribusiness. The course also examines how and from whom farmers and agribusinesses obtain loans.
Prerequisite(s): 1 of ACCT*2230, AGEC*2230, BUS*2230
Equate(s): AGEC*3400
Restriction(s): Registration in B.Comm, AGBU, AGBU Co-op, B.Sc.(Agri.) AGEC or B.A, AGEC.

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
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, FARE*2410, AGEC*3320, AGR*2402, BUS*3320, ECON*3560, ECON*3660
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
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):
Priority Access course. Enrolment may be restricted to particular programs or specializations. See 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, Agriculture 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, Agriculture 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. f. 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*1090 Basic French: Reading F,W (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. (Offered through Distance Education only.)
Restriction(s): Students with native or near-native ability in French, including Francophones and French immersion students, will not be admitted to this course. Instructor consent required to verify student's level.

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. (Offered through Distance Education only.)
Restriction(s): Students with native or near-native ability in French, including Francophones and French immersion students, will not be admitted to this course. Instructor consent required to verify student's level.

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. (Offered through Distance Education only.)
Restriction(s): Students with native or near-native ability in French, including Francophones and French immersion students, will not be admitted to this course. Instructor consent required to verify student's level.

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.

Equate(s): FREN*1110
Restriction(s): 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
Restriction(s): Students with native or near-native ability in French, including Francophones and French immersion students, will not be admitted to this course.

FREN*2020 France: Literature and Society F,W (3-1) [0.50]
An historical introduction to French thought and as seen through literature and art. Lectures and small seminars are integrated into a multi-media presentation including videotapes, slides and audio tapes.

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.
Restriction(s): Students with native ability in French will not be admitted to this course.

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
Restriction(s): 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*2030

FREN*3010 Twentieth-Century French Novel W (3-0) [0.50]
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. (Offered in even-numbered years.)

Prerequisite(s): FREN*2020, FREN*2030

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, FREN*2030
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*2030, FREN*2060
Restriction(s): FREN*3020, FREN*3210

FREN*3200 Quebec Novel F (3-0) [0.50]
A survey of representative Quebec novels from World War II to the Quiet Revolution. A seminar and lecture course.

Prerequisite(s): FREN*2030, FREN*2060

FREN*3230 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]
Contrastive grammar (French and English). Analysis of various styles and their application to written translation. Small discussion groups.

Prerequisite(s): FREN*2030, FREN*2500

FREN*3520 French Composition II W (3-0) [0.50]
A continuation of FREN*2520 with special emphasis on stylistics.

Prerequisite(s): FREN*2030, FREN*2520

FREN*3550 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.
XII. Course Descriptions, French Studies

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): FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3640 Studies in French Literature and Culture in Nice F (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): 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): 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): FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3670 Studies in French Literature and Culture in Nice F (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): FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3680 Studies in French Literature and Culture in Nice F (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): FREN*2020, FREN*2030, FREN*2060
Restriction(s): Admission to Nice Program.

FREN*3690 Studies in French Literature and Culture in Nice F (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): 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]
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*2030, 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*2030, 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*2030, 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*2030, FREN*2060, FREN*3520, FREN*4740.
Restriction(s): 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.
Restriction(s): FREN*2020, FREN*2030, FREN*3520, FREN*4740. 70% average in all French Studies course attempts is required, although at least 75% is recommended.
Restriction(s): 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*4740.
Restriction(s): Instructor consent required.

FREN*4900 Applied Linguistics: French Studies W (3-0) [0.50]
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, (1 of FREN*3230, LING*1000 or permission of the department)
Geography

Department of Geography

Students majoring in other departments may take a number of Geography courses without the prerequisites listed below if they obtain the permission of the instructor.

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.

For courses without a semester designation, or with an alternate year designation, please consult the prerequisites listed below if they obtain the permission of the instructor.

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 (3-2) [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.)

Restriction(s): GEOG*1350

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 change.

Restriction(s): GEOG*1300

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.

Prerequisite(s): 1 of GEOG*1300, GEOG*1350, GEOL*1050, GEOL*1100

GEOG*2030 Political Ecology & Geography F (3-0) [0.50]
This course examines the changing world political map and relations between society and ecology from the perspective of intra- and inter-state structures and processes. Territorial restructuring, international law, environmental movements, localization and globalization are considered. Particular attention is paid to ecological and development processes and strategies in various parts of the world.

Prerequisite(s): 5.00 credits, GEOG*1220 is recommended

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.

Prerequisite(s): GEOG*1300 or GEOG*1350

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.)

Prerequisite(s): GEOG*1220 is recommended

GEOG*2220 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.

Prerequisite(s): GEOG*1200

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.

Prerequisite(s): GEOG*1200 or (ANTH*1150 and GEOG*1220)

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.

Prerequisite(s): 0.50 credits in geography and/or earth science

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.

Prerequisite(s): 0.50 credits at the 1000 level in Geography

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.

Prerequisite(s): 5.00 credits

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 F (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.

Prerequisite(s): GEOG*2000, GEOG*2460 or STAT*2400

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.)

Prerequisite(s): 7.50 credits, GEOG*2210 recommended

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.

Prerequisite(s): 7.50 credits, GEOG*2030 and GEOG*2260 recommended

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.

Prerequisite(s): 7.50 credits, GEOG*2210 and GEOG*2260 recommended

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.

Prerequisite(s): (GEOG*2460 or STAT*2400), 1 of BIOL*2060, BOT*2050, ENVB*2030, GEOG*2110)
XII. Course Descriptions, Geography

**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 Agriculture and Society F (3-0) [0.50]**
This course adopts a geographical perspective in exploring the structure and functioning of agriculture and food systems in contemporary society. Particular attention is paid to the interaction of farms with the social, economic, institutional and environmental forces that combine to shape local types and regional patterns of agricultural activity. The concept of sustainability is used as an integrating theme for the consideration of selected issues.

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 (3-2) [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 biophysical 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, flume 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*3400

**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 Equivalent(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, restructuring 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 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.)

Classes during the fall semester focus on the analysis and interpretation of data and the implementation and presentation of a field research project. The course involves a field place between the end of the summer session and the start of classes in the fall semester.

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.

**GEOG*4880 Contemporary Geographic Thought W (3-0) [0.50]**
A critical overview of the evolution and current status of Geography. Particular emphasis will be given to the evolution of the discipline. The interaction between human and physical geographers and their approaches to issues and the subject will be analyzed.

Restriction(s): Restricted to major honours students in Geography at semester 6 or above.
<table>
<thead>
<tr>
<th>GEOG*4990 Independent Study in Geography U (0-3) [0.50]</th>
</tr>
</thead>
<tbody>
<tr>
<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>
</tr>
</tbody>
</table>

*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.
Geology

School of Environmental Sciences

GEOL*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. Geoscientific basis for environmental evaluation and land use. Emphasis on local and North American examples.

GEOL*1100 Principles of Geology S,F,W (3-0) [0.50]
Introduction to geological principles, their historical development and application to interpreting Earth materials and processes. Suitable for those wishing a general knowledge of earth sciences. (Also offered through Distance Education format.)

GEOL*2020 Stratigraphy F (3-0) [0.50]
Principles of recognizing and interpreting Earth surface environments using examples from geology, geomorphology and archeology. Brief summary of sediment identification, recognition of processes and environments. Section description and interpretation followed by principles of physical correlation and facies interpretation. Concepts of physical, biological and radiometric dating. Controls on stratigraphic sequence development - isostasy, eustasy and tectonics. Sedimentary basin development, interpretation and history including changes in atmosphere, hydrosphere and biosphere. (Offered in even-numbered years.)

Prerequisite(s): 1 of GEOL*1050, GEOL*1100, GEOG*1300, GEOG*1350 or equivalent

GEOL*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.

Prerequisite(s): GEOL*1050 or SOIL*2200

GEOL*2160 Glacial Geology W (3-0) [0.50]
Identical to GEOL*2200 but without laboratory. Lectures taken with GEOL*2200.

Prerequisite(s): 1 of AGR*2320, GEOG*1300, GEOL*1050, GEOL*1100, SOIL*2200

GEOL*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.

Prerequisite(s): 1 of AGR*2301, AGR*2320, GEOG*1300, GEOL*1050, GEOL*1100, SOIL*2200, SOIL*2220

GEOL*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 events, 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.)

Prerequisite(s): 1 of GEOG*1300, GEOG*1350, GEOL*1050, GEOL*1100

GEOL*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.

Prerequisite(s): 1 of IPS*1110, MATH*1000, MATH*1080, MATH*1200 or Registration in B.B.R.M.

GEOL*3090 Applied Structural Geology W (3-0) [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.)

Prerequisite(s): GEOL*1050, suitable geomorphology credit

GEOL*3190 Environmental Water Chemistry F (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.

Prerequisite(s): 1 of CHEM*1010, CHEM*1050, CHEM*1310

GEOL*3250 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): GEOL*1050, (GEOG*2000 or ENVS*2150), (GEOL*2150 or GEOL*2200)

GEOL*4090 Sedimentology F (3-3) [0.50]
Origin, transport, deposition of sediments, and formation of sedimentary rocks. Emphasis will be on the interpretation of recent and ancient environments of deposition, and on the uses of sedimentary materials. Six laboratories will be scheduled as field trips. One Saturday field trip may be scheduled. (Offered in even-numbered years.)

Prerequisite(s): (1 of GEOL*2020, GEOL*2150, GEOL*2200, equivalent), 0.50 credit at the 3000 level in the GEOG*XXXX or GEOL*XXXX grouping or equivalent

GEOL*4110 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 if the topic, if any, will be offered during specific semesters. Field trips will be scheduled as required.

Prerequisite(s): (GEOG*1300 or GEOL*1050), 0.50 credits at the 3000 level in a science appropriate to chosen topic

GEOL*4130 Clay and Humic Chemistry W (3-2) [0.50]
This course is a study of the fundamental chemistry of clay minerals and humic substances in the environment, with particular reference to soils, sediments and waters. Emphasis will be placed on their structures and charge characteristics in the context of surface complexation modeling of proton binding and cation and anion adsorption. (Offered in even-numbered years.)

Prerequisite(s): SOIL*3060 or GEOL*3190

GEOL*4240 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.)

Prerequisite(s): [(BIOL*1040 or MIRC*1020) or (2 of BIOL*1070, BIOL*1080, BIOL*1090)], GEOL*1050, 0.50 credits at the 3000 level in GEOL or MIRC

Restriction(s): MIRC*4280, MIRC*4290
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.

**GERM*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.

**GERM*1110 Introductory German II F,W (3-1) [0.50]**

This course provides for an intensification of the four language skills introduced in GERM*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):** GERM*1100

**GERM*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):** GERM*2490

**Restriction(s):** ITAL*2050

**GERM*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):** GERM*1110 or equivalent

**GERM*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 GERM*1110

**GERM*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):** GERM*2490

**GERM*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):** GERM*2050 or permission of the instructor

**GERM*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 GERM*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):** (GERM*2050 or GERM*2590), GERM*2560

**Co-requisite(s):** HUMN*3020

**Restriction(s):** GERM*3440, HUMN*3440

**GERM*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 GERM*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):** GERM*2050, GERM*2560

**Co-requisite(s):** HUMN*3470

**GERM*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):** GERM*2500

**GERM*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):** GERM*3500

**Restriction(s):** GERM*3530

**GERM*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.

**GERM*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</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREK*1100</td>
<td>Preliminary Greek I F (3-0) [0.50]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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>
<td></td>
<td></td>
</tr>
<tr>
<td>GREK*1110</td>
<td>Preliminary Greek II W (3-0) [0.50]</td>
<td></td>
<td>GREK*1100 or Grade 12 Greek</td>
</tr>
<tr>
<td></td>
<td>A continuation of GREK*1100.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GREK*2020</td>
<td>Greek Language and Culture F (3-0) [0.50]</td>
<td></td>
<td>GREK*1110</td>
</tr>
<tr>
<td></td>
<td>Consolidation of fundamental morphology and syntax acquired in GREK<em>1100 and GREK</em>1110. Intensive reading in texts that also illuminate aspects of Greek culture.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): GREK*1110</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
XII. Course Descriptions, Hispanic Studies

**Hispanic Studies**

_School of Languages and Literatures_  
_All courses are conducted in Spanish (reading, writing and speaking), and literary texts are, at all levels, studied in the original language._

**HISP*1100 Introductory Spanish I F,W (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 study in Spanish. (Also offered through Distance Education format).  
_Equate(s): 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_
_Equate(s): SPAN*1110_

**HISP*2000 Intermediate Spanish I F,W (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, (or equivalent)_
_Equate(s): 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_
_Equate(s): SPAN*2010_

**HISP*2040 Culture of Spain F (3-0) [0.50]**  
An examination of the historical and cultural events that provided the backdrop for the development of modern Spanish, as well as a visual survey of Spanish culture.  
_Prerequisite(s): 1 of HISP*1110, SPAN*1110; 4U Spanish_
_Equate(s): 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_
_Equate(s): 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, societies, institutions and culture.  
_Prerequisite(s): 1 of HISP*2000, SPAN*1110; 4U Spanish_
_Equate(s): 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 F (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, dysglossia, language attitude, code-switching, language planning and conversation analysis.  
_Prerequisite(s): (HISP*1110 or SPAN*1110), LING*1000_

**HISP*3500 Advanced Spanish I F (3-0) [0.50]**  
An advanced language course that focuses on the refinement of students’ written and verbal communication skills in Spanish.  
_Prerequisite(s): HISP*2010 or SPAN*2010_
_Equate(s): 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_
_Equate(s): 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 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_
_Equate(s): SPAN*3800_
_Restriction(s): Instructor consent required._

**HISP*3810 Directed Readings in Hispanic Studies U (3-0) [0.50]**  
A reading course in Spanish or Spanish American literature designed according to 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_
_Equate(s): 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*4400 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, theme 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 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_
_Equate(s): SPAN*4520_

**HISP*4520 Spanish Translation II W (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_
_Equate(s): SPAN*4500_

**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_
_Equate(s): 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 Society Since 1500 F,W (3-0) [0.50]
This course is intended as an introduction to the history of science and its interrelationships with society in the western world since 1500, including its influence on the environment, religion, economics and political developments, warfare, etc. Particular emphasis will be laid upon scientific developments in the 19th and 20th centuries.

Restriction(s): ASCP*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 often violent interaction between the English and the Celtic peoples.

HIST*2260 Religion and Society W (3-0) [0.50]
A study of selected issues in modern Canadian history, the subjects investigated in this course may include: change in the legal structure of marriage; power relations and sex roles within the family; the role of women and the family in society; 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*2270 World Religions in Historical Perspective W (3-0) [0.50]
This course introduces students to the comparative study of religion in history and the interaction of religion with general social and cultural traits over time. A focus on the cultural roots of specific traditions and religion as a metaphor will account for the spread of these diverse traditions across social and national boundaries. This course will consider the interaction of military strategy and tactics, the impact of technology on warfare, and the relationship between war and civilian populations.

HIST*2280 Modern France Since 1750 U (3-0) [0.50]
An introduction to 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.

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
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 diffusion, 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. (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*3100 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, conquests, independence, the Mexican revolution, indigenismo, NAFTA and Zapataist 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 the co-construction of disease and society; disease and urbanization; disease and colonialism; disease and globalization; and disease and gender. (Offered in even-numbered years.)
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 Germans 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 Uses of History U (2-1) [0.50]
As an introduction to the use of history outside the classroom, this course discusses public history and memory through the activities of governments, corporations, and voluntary associations. History as political propaganda, marketing strategy, and ideological support in a global and historical context is examined. Discussions will focus on history as presented in films, television, monuments, museums, commemorations, and other public and popular media.
Prerequisite(s): 7.50 credits including HIST*2450

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. These 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 civic 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, 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]
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 including HIST*2890

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*2300, 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]
Political events, key personalities, the political process, and state institutions and institutions will be analyzed with a view to understanding historical aspects of the political system and culture in Canada. (H)
Prerequisite(s): 10.00 credits including (HIST*2600 or HIST*2601)
Restriction(s): 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*2600 or HIST*2601)
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 contemporary 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>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
<th>Restriction(s)</th>
</tr>
</thead>
<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>
</tr>
<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>
</tr>
<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 including (HIST<em>2600 or HIST</em>2601/2)</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*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>
</tr>
<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>
</tr>
<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>
</tr>
<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>
</tr>
<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. Instructor consent required.</td>
</tr>
</tbody>
</table>
Human Kinetics

Department of Human Health and Nutritional Sciences

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
Co-requisite(s): HK*3940
Restriction(s): 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], BIOC*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 Fall 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*4371/2 Research in Human Health and Nutritional Sciences II S-F,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*4460 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 of 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. (Offered in odd-numbered years.)

**Prerequisite(s):** ENGG*3150 or HK*2270
**Horticultural Science**

*Department of Plant Agriculture*

**HORT*1120 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 B.Sc., B.Sc.(Agr.) or B.Sc.(Env.) programs.

**HORT*1130 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 B.Sc., B.Sc.(Agr.) or B.Sc.(Env.) programs.

**HORT*2450 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, BIOL*1070, BIOL*1080]

*Restriction(s):* HORT*3220

**HORT*3010 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*3050 Management of Turfgrass Insect Pests and Weeds F (3-2) [0.50]**

Biological, behavioral 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

**HORT*3230 Plant Propagation F (2-2) [0.50]**

In this course principles and practices of propagation for horticultural plants are explored, including sexual (seed propagation, seed maturation, dormancy and seed germination) and, vegetative (sexual propagation, including division, layering, budding, grafting and tissue culture).

*Prerequisite(s):* 1 of BIOL*1040, BIOL*1070, BIOL*1090

**HORT*3270 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*1070, BIOL*1080

**HORT*3280 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*3350 Woody Plant Production and Culture W (3-3) [0.50]**

Techniques of producing field and container-grown woody landscape nursery stock are integrated with techniques of planting and maintaining individual trees in the cultivated landscape. This course encompasses nursery stock production and arboriculture.

*Prerequisite(s):* 1 of BIOL*1030, BIOL*1070, BIOL*1090, BIOL*1500, ZOO*1500

*Equates to:* HORT*3340, HORT*4250

**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]**

This course will explore the environmental impact of turfgrass management in urban and rural landscapes and society's perception of the 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):* HORT*2450, HORT*4450, (1 of BIOL*2060, BOT*2050, CROP*2110)

**HORT*4300 Postharvest Physiology W (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]**

Principles involved in the production and utilization of tropical and sub-tropical crops. School of Environmental Design and Rural Development.

*Prerequisite(s):* AGR*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 W (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
XII. Course Descriptions, Human Resources and Organizational Behaviour

**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 application. 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. (Also offered through Distance Education format.)

_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 B.Comm, B.A.Sc. AHN, and B.A. EURS.

**HROB*3010 Compensation Systems F-W (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. (Also offered through Distance Education format.)

_Prerequisite(s):_ 1 of BUS*3000, HROB*2100, HTM*3000  
_Equate(s):_ BUS*3010, PSYC*3010  
_Restriction(s):_ Priority Access course. Enrolment restricted to particular programs or specializations. See department for more information.

**HROB*3020 Occupational Health and Safety F,W (3-0) [0.50]**

The major objective of this course is to introduce Human Resource 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. (Also offered through Distance Education format.)

_Prerequisite(s):_ 9.00 credits including (1 of BUS*3000, HROB*2100, HTM*3000)  
_Equate(s):_ BUS*3030, PSYC*3060  
_Restriction(s):_ Priority Access course. Enrolment restricted to particular programs or specializations. See 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 employees and employers. 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 B.Comm, B.A.Sc. AHN, and B.A. EURS

**HROB*3070 Recruitment and Selection F,W (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. (Also offered through Distance Education format.)

_Prerequisite(s):_ 1 of BUS*3000, HROB*2100, HTM*3000  
_Equate(s):_ BUS*3070, PSYC*3070  
_Restriction(s):_ Priority Access course. Enrolment restricted to particular programs or specializations. See department for more information.

**HROB*3090 Training and Development F,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. (Also offered through Distance Education format.)

_Prerequisite(s):_ 1 of BUS*3000, HROB*2100, HTM*3000  
_Equate(s):_ BUS*3090, PSYC*3090  
_Restriction(s):_ Priority Access course. Enrolment restricted to particular programs or specializations. See department for more information.

**HROB*3100 Managerial Skills F (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, ISS*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*2010 or HROB*2100) plus 120 hours of placement experience  
_Equate(s):_ BUS*4010  
_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 resource 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):_ Priority Access course. Enrolment restricted to particular programs or specializations. See department for more information.

Last Revision: March 15, 2014
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): Priority Access course. Enrolment restricted to particular programs or specializations. See department for more information.
Hospitability and Tourism Management

School of Hospitality and Tourism Management

HTM*1000 Introduction to Hospitality and Tourism Management F (3-0) [0.50]
This course is a survey of the hospitality and tourism industry, with reference to its historical development, growth, and organization. The management process and the scope of the industry today are examined.

Restriction(s): Registration in B.Comm. HAFAC, TMGT or UND, BA European Studies (EURS). Area of Emphasis in European Business.

HTM*2010 Hospitality and Tourism Business Communications F,W (3-0) [0.50]
This course is designed to enhance students' confidence and professionalism in the hospitality and tourism industry by improving their communication skills. The focus is primarily on writing, but also includes effective speaking and presentation skills. The assignments are based on hospitality and tourism issues.

Prerequisite(s): HTM*1000 or HTM*2700
Restriction(s): Registration in B.Comm. HAFAC or TMGT.

HTM*2030 Control Systems in the Hospitality Industry F,W (4-0) [0.50]
This is a study of the policies and procedures required to control food, beverage and other products, payroll and other operating costs. Areas examined include such topics as cost behaviour and analysis, menu analysis, budget preparation and the interpretation of data. The course will also stress the application of analytical techniques. Examples from all industry segments will be used. (Also offered through Distance Education format.)

Prerequisite(s): HTM*2000 or HTM*2700
Restriction(s): Registration in B.Comm. HAFAC or TMGT.

HTM*2050 Dimensions of Tourism F (3-0) [0.50]
This course explores tourism as an amalgam of industries - transportation, accommodation, travel, trade and other facilitating services; follows a multidisciplinary approach in its analysis, organization, planning and control. (Last offering - Fall 2011)

Prerequisite(s): HTM*2120 or MCS*1000
Equates: HTM*3100
Restriction(s): Registration in B.Comm. HAFAC or TMGT.

HTM*2070 Meetings and Convention Management W (3-0) [0.50]
This course examines the sales, servicing and management of the meetings, events, conventions, exhibitions, and trade show industries. Emphasis is placed on both the supply (product and service providers) and demand (meeting and event managers) elements of the industry. The course focuses on the unique operational and managerial functions of this multifaceted component of the tourism and hospitality industry.

Prerequisite(s): HTM*1000
Restriction(s): Registration in B.Comm. HAFAC or TMGT.

HTM*2100 Lodging Operations W (3-0) [0.50]
A study of the nature of unit operations in the various sectors of the lodging industry and of the functions and systems of lodging operations. Topics will include organization structure and responsibilities, sociotechnical systems and legal and security aspects.

Prerequisite(s): HTM*1000
Restriction(s): Registration in B.Comm. HAFAC or TMGT.

HTM*2170 Tourism Policy, Planning and Development W (3-0) [0.50]
This course focuses on the various aspects of tourism planning, policy, and development. Topics covered include: reasons for development; tourism development as a strategy for urban revitalization; tourism's links to heritage conservation and regional development; sustainability and the adverse impacts of development; cultural considerations and community participation; and the importance of context for individual tourism projects.

Prerequisite(s): GEOG*1220, HTM*1000
Restriction(s): Registration in B.Comm. HAFAC or TMGT, BA European Studies (EURS). Area of Emphasis in European Business.

HTM*2700 Introductory Foods F,W (3-2) [0.50]
Scientific principles and their application to food preparation and food consumption. An integrated lecture and laboratory approach is used to study the chemical and physical properties of foods.

Prerequisite(s): 1 of Grade 12U Chemistry, OAC Chemistry, CHEM*1000, CHEM*1040, CHEM*1060, CHEM*1100
Restriction(s): Registration in B.Comm. HAFAC or TMGT, B.A.Sc. AHN.

HTM*2740 Cultural Aspects of Food F (3-0) [0.50]
A survey of cultural influences on individual and group food habits and patterns. The course studies the selection and use of food; the development of food beliefs, attitudes and related behaviours within the context of cultural systems.

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 B.Comm. HAFAC, HAFAC.C or 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 B.Comm. HAFAC, HAFAC.C or 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 B.Comm. HAFAC, HAFAC.C or 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 B.Comm. HAFAC, HAFAC.C or TMGT, B.A.Sc. AHN.

HTM*3100 Operations Analysis in the Hospitality and Tourism Industry F,W (3-0) [0.50]
The analysis of operations in the hospitality and tourism industry with the aim of improving productivity of resources will be covered. 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): ECON*2740 or STAT*2060
Restriction(s): Registration in B.Comm. HAFAC, HAFAC.C or TMGT.

HTM*3150 Experiential Learning in the Hospitality Industry U (3-0) [0.50]
An independent study program 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 B.Comm. HAFAC.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 sustainable manner.

Prerequisite(s): HTM*2170
Restriction(s): Registration in B.Comm. HAFAC, HAFAC.C or TMGT, BA European Studies (EURS). Area of Emphasis in European Business.

HTM*3180 Casino Operations Management W (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.
**HTM*3780 Economics of Food Usage F (3-0) [0.50]**
This is an overview of food supply chain management in the food and foodservice industries of Canada with a global perspective. Food production, distribution, legislation and consumption habits impacting the economics and use of food in Canada and globally are studied. (Offered through Distance Education only.)

**Prerequisite(s):** 1 of FOOD*2000, HTM*2700, MCS*1000

**HTM*4050 Wine and Oenology W (2-2) [0.50]**
This course provides students with knowledge about the wine industry and will emphasize knowledge about product, purchasing, pricing, and service.

**Prerequisite(s):** 9.00 credits

**Restriction(s):** Registration in B.Comm. HAFA, HAFA:C or TMGT. Students must be of legal drinking age in Ontario.

**HTM*4090 Hospitality and Tourism Facilities Management and Design F.W (4-0) [0.50]**
This course will equip an individual to work as a knowledgeable member of a hospitality or tourism organization's design or re-design team. Efficient and effective space utilization for both front-and-back-of-the-house areas, plus a knowledge of how to read professional drawings ("blueprints") will be covered. This course also will provide an understanding of the operation of a physical plant including such elements as systems maintenance, appropriate use of various materials, energy management, life cycle costing, and safety and security issues.

**Prerequisite(s):** HTM*3090

**Restriction(s):** Registration in B.Comm. HAFA, HAFA:C or TMGT.

**HTM*4110 Advanced Restaurant Operations U (1-7) [0.50]**
This course focuses on the management and operation of fine dining restaurants, and the study of major cuisines and classical cookery. Analysis of qualitative aspects of the restaurant business (ambience, total service package, and the dynamic relationship between service and the product of food and wine) is covered. Emphasis is placed upon creativity and authenticity in menu formulation, operational performance and guest satisfaction.

**Prerequisite(s):** HTM*3090

**Restriction(s):** Registration in B.Comm. HAFA, HAFA:C or TMGT.

**HTM*4130 Current Management Topics U (3-0) [0.50]**
Principal operating problems in the hospitality and tourism industry are analyzed and discussed using actual case studies. Students should check with the School of Hospitality and tourism to determine what topic will be offered during specific semesters, and which prerequisites, if any, are appropriate.

**Restriction(s):** Registration in B.Comm. HAFA, HAFA:C or TMGT.

**HTM*4170 International Tourism W (3-0) [0.50]**
This course encourages students to develop a cross-cultural awareness of the dimensions and issues of tourism, and the trends that shape the various sectors of the industry in every region of the world. Students will gain knowledge of the social, political and economic impacts of tourism globally, the patterns of international travel, regional development and marketing implications.

**Prerequisite(s):** 14.00 credits including HTM*3160

**Restriction(s):** Registration in B.Comm. HAFA, HAFA:C or TMGT, BA European Studies (EURS) Area of Emphasis in European Business.

**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):** AGEC*3320 or BUS*3320

**Restriction(s):** Registration in B.Comm. HAFA, HAFA:C or TMGT.

**HTM*4200 Policy Issues in Hospitality and Tourism Management F.W (3-0) [0.50]**
An integrative course intended to draw together the 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):** (AGEC*3320 or BUS*3320), (1 of ACCT*2230, AGEC*2230, BUS*2230, HTM*3070), HTM*3080

**Restriction(s):** Registration in B.Comm. HAFA, HAFA:C or TMGT.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMN*3020</td>
<td>Myth and Fairy Tales in Germany F (3-0) [0.50]</td>
<td>3.00</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*3200. (Offered in even-numbered years.) Pre-requisite(s): 5.00 credits.</td>
</tr>
<tr>
<td>HUMN*3100</td>
<td>London Studies in the Humanities W (2-3) [0.50]</td>
<td>2.00</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 London cultural resources. For London Semester students only. Pre-requisite(s): Admission to London Semester.</td>
</tr>
<tr>
<td>HUMN*3150</td>
<td>Paris Studies in the Humanities W (2-3) [0.50]</td>
<td>2.00</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. Pre-requisite(s): Admission to Paris Semester.</td>
</tr>
<tr>
<td>HUMN*3210</td>
<td>Introduction to Polish History and Culture F (6-4) [1.00]</td>
<td>6.00</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. Pre-requisite(s): Admission to Krakow Semester.</td>
</tr>
<tr>
<td>HUMN*3220</td>
<td>Krakow Studies in the Humanities I F (3-2) [0.50]</td>
<td>3.00</td>
<td>An integrated course of studies in the Humanities as they relate to the resources of Krakow, Poland. For Krakow Semester students only. Pre-requisite(s): Admission to the Krakow Semester.</td>
</tr>
<tr>
<td>HUMN*3230</td>
<td>Krakow Studies in the Humanities II F (3-2) [0.50]</td>
<td>3.00</td>
<td>An integrated course of studies in the Humanities as they relate to the resources of Krakow, Poland. For Krakow Semester students only. Pre-requisite(s): Admission to the Krakow Semester.</td>
</tr>
<tr>
<td>HUMN*3240</td>
<td>India Studies in the Humanities W (3-0) [0.50]</td>
<td>3.00</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. Pre-requisite(s): Admission to the India Semester.</td>
</tr>
<tr>
<td>HUMN*3300</td>
<td>Latin American Studies in the Humanities W (1-2) [0.50]</td>
<td>1.00</td>
<td>An integrated course of studies in the humanities as they relate to the resources of Latin America. Pre-requisite(s): Admission to the Latin America semester, consent of the instructor and satisfactory participation in a bi-weekly preparation seminar during the fall semester.</td>
</tr>
<tr>
<td>HUMN*3400</td>
<td>Renaissance Lovers and Fools W (3-0) [0.50]</td>
<td>3.00</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<em>3400. Pre-requisite(s): 5.00 credits. Restriction(s): ITAL</em>2100, HUMN*2100.</td>
</tr>
<tr>
<td>HUMN*3470</td>
<td>Holocaust &amp; WWII in German Lit. &amp; Film F (3-0) [0.50]</td>
<td>3.00</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<em>3470. (Offered in odd-numbered years.) Pre-requisite(s): 5.00 credits. Restriction(s): GERM</em>3470.</td>
</tr>
</tbody>
</table>
## Interdisciplinary Physical Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPS*4001</td>
<td>Chemical Physics Research Project F</td>
<td>(0-9) [0.75]</td>
</tr>
<tr>
<td>IPS*4001/2</td>
<td>Chemical Physics Research Project F-W</td>
<td>[1.50]</td>
</tr>
<tr>
<td>IPS*4002</td>
<td>Chemical Physics Research Project W</td>
<td>(0-9) [0.75]</td>
</tr>
</tbody>
</table>

### IPS*4001 Chemical Physics Research Project F (0-9) [0.75]
First part of the two-semester course IPS*4001/2. Refer to IPS*4001/2 for course description.

**Prerequisite(s):** (CHEM*3870 or CHEM*4880), PHYS*3100 (of which CHEM*3870 may be taken concurrently)

**Restriction(s):** Instructor consent required.

### IPS*4001/2 Chemical Physics Research Project F-W [1.50]
A two-semester research project supervised by a faculty member from Physics or from Chemistry and Biochemistry, or by a pair of faculty members spanning the 2 departments in order to expand cross disciplinary opportunities. Students will participate in the seminar and reporting activities of either CHEM*4900, CHEM*4910 or PHYS*4500, PHYS*4510, and may utilize modules from PHYS*4500 as preparation if necessary. This is a two-semester course offered over consecutive semesters. When you select it you must select IPS*4001 in the Fall and IPS*4002 in the Winter semester. A grade will not be assigned to IPS*4001 until IPS*4002 has been completed.

**Prerequisite(s):** (CHEM*3870 or CHEM*4880), PHYS*3100 (of which CHEM*3870 may be taken concurrently)

**Restriction(s):** Instructor consent required.

### IPS*4002 Chemical Physics Research Project W (0-9) [0.75]
Second part of the two-semester course IPS*4001/2. Refer to IPS*4001/2 for course description.

**Prerequisite(s):** IPS*4001
### Interdisciplinary Social Science

#### 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 W (1-2) [0.50]
An integrated course of studies in the social sciences as they relate to the resources of Latin America.

**Restriction(s):** Admission to the Latin America semester, consent of the instructor and satisfactory participation in a bi-weekly preparation seminar during the fall semester.

#### 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*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.

**Restrictions:** 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 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.

**Restrictions:** 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 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*1250

#### UNIV*2050 Environmental Perspectives and Human Choices I F (3-0) [0.50]

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 and water and our use of energy, and will lead the student to a detailed consideration of the future. (Offered through Distance Education format only.)

**Prerequisite(s):** UNIV*1250

#### 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*2250 until UNIV*2260 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

#### 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*2250 and UNIV*2260. Students who wish to enroll in this course should see Student Life and Career Services for more information.

**Prerequisite(s):** UNIV*2250

#### 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*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. Students who wish to enroll in this course should see Student Life and Career Services for more information.

**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. Students who wish to enroll in this course should see Student Life and Career Services for more information.

**Prerequisite(s):** Admission to the Shanghai semester.

**Restriction(s):** Instructor consent required.

#### UNIV*3250 Environmental Perspectives and Human Choices II W (3-0) [0.50]

The complexity and dimensions of key environmental issues introduced in 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.)

**Prerequisite(s):** UNIV*2050

#### 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.
Integrative Biology

**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 during the first 6 semesters of a major in the College of Biological Science. Instructor consent required.

**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 during the first 6 semesters of a major in the College of Biological Science. Instructor consent required.

**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 over the first 6 semesters of a major in the College of Biological Science and permission of course coordinator.

**IBIO*4521/2 Thesis in Integrative Biology F-W [2.00]**

This course is a two semester (F-W) undergraduate Thesis project in which students conduct a comprehensive, independent research project in organismal biology under the supervision of a faculty member. Projects must be planned in advance and involve a thorough literature review, a research proposal, original research of publication quality and a written Thesis, which is assessed through an oral presentation and defence. 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 initiated. 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 over the first 6 semesters of a major in the College of Biological Science and permission of course coordinator.

**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*
International Development

**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 W (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): GER*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*4900 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 I 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 behavioral 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 scale 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): ENVS*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
LARC*4740 Case Studies S,F,W (0-6) [0.50]
Travel and field studies of selected projects as approved by a faculty member. Students are required to submit a project or paper.

Prerequisite(s): LARC*3040
## 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>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAT*1100</td>
<td>Preliminary Latin I F (3-0) [0.50]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAT*1110</td>
<td>Preliminary Latin II W (3-0) [0.50]</td>
<td></td>
<td>LAT*1100 or Grade 12 Latin</td>
</tr>
<tr>
<td>LAT*2000</td>
<td>Latin Literature F (3-0) [0.50]</td>
<td></td>
<td>Grade 12 Latin or LAT*1110</td>
</tr>
<tr>
<td>LAT*4100</td>
<td>Directed Readings in Latin Literature F (3-0) [0.50]</td>
<td></td>
<td>1 of CLAS<em>3060, CLAS</em>3120, CLAS*3300</td>
</tr>
<tr>
<td>LAT*4150</td>
<td>Research Paper: Latin F,W (3-0) [0.50]</td>
<td></td>
<td>CLAS<em>3060 or CLAS</em>3120</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>LING*1000</td>
<td>Introduction to Linguistics W (3-0) [0.50]</td>
<td>The nature of language. An elementary survey of linguistic disciplines. Phonetics, morphology, syntax, semantics, language, and society.</td>
<td></td>
</tr>
</tbody>
</table>
Management

Department of Business
Department of Marketing and Consumer Studies
School of Hospitality and Tourism Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Equate(s)</th>
<th>Restriction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT*1000</td>
<td>Introduction to Business F (3-0) [1.00]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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. Department of Marketing and Consumer Studies.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Restriction(s): CME*1000 . Registration in B.Comm. and fewer than 7.50 credits.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGMT*2150</td>
<td>Introduction to Canadian Business Management U (3-0) [0.50]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>This is an introductory course in the fundamentals of business management in Canada. Students will be exposed to the basic functions of business and management. This course will also cover small business and entrepreneurship, forms of business ownership, competing in the global business environment and the economic and political realities of business in Canada today. This course may not be taken for credit by Bachelor of Commerce students. (Offered through Distance Education format only.) School of Hospitality and Tourism Management.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Equate(s): HTM*2150</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Restriction(s): B.Comm. students cannot take this course for credit.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGMT*3020</td>
<td>Corporate Social Responsibility F (3-0) [0.50]</td>
<td>BUS<em>2090 or HROB</em>2100</td>
<td>BUS*5020</td>
<td>This is a Priority Access Course for students in the B.Comm. and B.A. Environmental Governance (EGOV) programs. Some restrictions may apply during some time periods. Please contact the department for more information.</td>
</tr>
<tr>
<td></td>
<td>This course provides students an opportunity to examine a comprehensive range of topics and issues related to business and sustainability and aims to explore the implications of changing stakeholder expectations, and opportunities for organizational sustainable value creation. Key topics will include CSR theories and frameworks, global issues and role of business in society, socially responsible investing, green consumption, CSR and firm competitive advantage, reputation, corporate governance and ethics, regulation and social/environmental reporting. Department of Business</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGMT*4000</td>
<td>Strategic Management F,W (6-0) [1.00]</td>
<td>(ECON<em>2560 or ECON</em>3560), (1 of AGEC<em>3320 , AGEC</em>3400 , BUS<em>3320, FARE</em>3400), (1 of AGEC<em>3310 , FARE</em>3310, HTM*3320)</td>
<td>BUS<em>4250, HTM</em>4200, Restricted to students in B.Comm. Priority Access course. See department for more information.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Strategic management 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 analytical tools and factual knowledge from other courses in analyzing comprehensive business problems and establishing viable plans and methods to implement the developed plans of action. (First offering - Fall 2014) Department of Business</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite(s): (ECON<em>2560 or ECON</em>3560), (1 of AGEC<em>3320 , AGEC</em>3400 , BUS<em>3320, FARE</em>3400), (1 of AGEC<em>3310 , FARE</em>3310, HTM*3320)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Restriction(s): BUS<em>4250, HTM</em>4200, Restricted to students in B.Comm. Priority Access course. See department for more information.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGMT*4050</td>
<td>Applied Community Project I F,W (3-0) [0.50]</td>
<td>10.00 credits, minimum 70% cumulative average</td>
<td></td>
<td>Restricted to students in B Comm. Instructor consent required.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Equate(s): 10.00 credits, minimum 70% cumulative average</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Restriction(s): Restricted to students in B Comm. Instructor consent required.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGMT*4060</td>
<td>Applied Community Project II F,W (3-0) [0.50]</td>
<td>10.00 credits, minimum 70% cumulative average</td>
<td></td>
<td>Restricted to students in B Comm. Instructor consent required.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Equate(s): 10.00 credits, minimum 70% cumulative average</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Restriction(s): Restricted to students in B Comm. Instructor consent required.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MGMT*4260 International Business W (3-0) [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.)

Equivalent(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 AGEC*4370, FARE*4370, HTM*3980.

MCS*2000 Business in a Changing World F (3-0) [0.50]

This course provides an overview of business by reviewing and discussing key issues (such as business communication, 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 skills.

Prerequisite(s): 5.00 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.Comp 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): 5.00 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.Comp program or CIS majors and minors.

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

Equation: 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 HAFAB*1000, HTM*1000, MCS*1000), (HRB*2100 or PSYC*1200). Although not required, it is recommended that students take PSYC*1200 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 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,W (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): 5.00 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 environment 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 F,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)

Equation: 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 (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 curvilinear 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.
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 and a cumulative GPA of 70%. 
Restriction(s): Registration in B.Comm. MKMN or B.Comm. 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

For students with 4U or OAC Calculus and expecting to pursue further studies in mathematics or the physical sciences: MATH*1200, MATH*1210.

1. For students interested in applications to the biological sciences: MATH*1080, MATH*2080.

2. For students not expecting to pursue further studies in mathematics: MATH*1030, MATH*1080.

For students expecting to pursue further studies in MATH*1000, MATH*1080, MATH*1200, MATH*1210 or MATH*2080.

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 approximators, 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 B.Com. 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 B.Comp programs or CIS.

MATH*1080 Elements of Calculus I F (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 formulas (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 hospital'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 MATH*1000, MATH*1080, MATH*1200
Restriction(s): 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): MATH*1210 or 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, dot product, 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): 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): MATH*1210 or 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 series for functions of one variable, plane and quadratic 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): MATH*1210 or 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, MATH*1210
Restriction(s): MATH*2170
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 mathematics, 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-Bendixon 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*4200 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*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 Topics in Modeling W (3-0) [0.50]
This course presents selected advanced topics in mathematical modelling, such as model formulation, techniques of model analysis and interpretation of results. Topics may include discrete and continuous models, both deterministic and probabilistic. (Offered in odd-numbered years.)
Prerequisite(s): MATH*3240

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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*4290</td>
<td>Geometry and Topology</td>
<td>0.50</td>
<td>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.)</td>
</tr>
<tr>
<td></td>
<td>(3-0)</td>
<td></td>
<td><strong>Prerequisite(s):</strong> MATH<em>3130, MATH</em>3200</td>
</tr>
<tr>
<td>MATH*4430</td>
<td>Advanced Numerical Methods</td>
<td>0.50</td>
<td>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.)</td>
</tr>
<tr>
<td></td>
<td>(3-0)</td>
<td></td>
<td><strong>Prerequisite(s):</strong> MATH<em>2130, (MATH</em>2150 or MATH<em>2160), MATH</em>2200, (MATH<em>2170 or MATH</em>2270)</td>
</tr>
<tr>
<td>MATH*4510</td>
<td>Environmental Transport and Dynamics</td>
<td>0.50</td>
<td>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.)</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td></td>
<td><strong>Prerequisite(s):</strong> MATH<em>3510 or MATH</em>3100, 0.50 credits in statistics</td>
</tr>
<tr>
<td>MATH*4600</td>
<td>Advanced Research Project in Mathematics</td>
<td>1.00</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>F,W (0-6)</td>
<td></td>
<td><strong>Restriction(s):</strong> Approval of a supervisor and the course coordinator.</td>
</tr>
</tbody>
</table>
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, including 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 W (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*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): MCB*4500 or equivalent laboratory experience at the discretion of the student's faculty advisor. Normally, students must have completed 6 semesters of the relevant majors.
Restriction(s): MCB*4500, MICR*4310. Students in programs offering project courses cannot enroll in MCB*4500. Grade requirements may be waived in exceptional circumstances at the discretion of faculty advisor and course coordinator. Course 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): MCB*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): MCB*4600, MICR*4240
Restriction(s): Students in programs offering topics courses cannot enroll in MCB*4600. Coordinator consent required.
### XII. Course Descriptions, Meteorology

#### MET*1000 The Atmospheric Environment W (3-0) [0.50]
An introduction to the atmospheric environment which covers global to local scales. Topics covered are: understanding weather maps and forecasts, weather indices for plants and people, local-scale microclimates of natural surfaces and cities, intentional modification of microclimates, diffusion of pollutants in the atmosphere and their impact on air quality and climate change, policy issues associated with air quality and climate change. (Offered through Distance Education format only.)

**Restriction(s):** Not available to students with previous MET credit. Not available to students registered in B.Sc. or B.Sc.(Env.) programs.

#### MET*2020 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.

**Prerequisite(s):** (1 of BIOL*1020, BIOL*1030, [2 of BIOL*1070, BIOL*1080, BIOL*1090])

#### MET*2030 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.

**Prerequisite(s):** 1 of MET*2020, PHYS*1000, PHYS*1070, PHYS*1080, PHYS*1110, PHYS*1130

#### MET*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.

**Prerequisite(s):** MET*2030 or GEOG*2110

#### MET*4100 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.)

**Prerequisite(s):** MET*3050

#### MET*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.

**Prerequisite(s):** MET*2030 or MET*3050

**Restriction(s):** MET*4230
MICR*2030 Microbial Growth S,F,W (2-3) [0.50]
This course covers the environmental factors and physiological processes of microbial growth. The transport of nutrients, the metabolic availability of energy, metabolic patterns, and versatility in diverse microorganisms. Laboratory exercises will focus on the techniques of: microscopy, isolation and enumeration, measurement of growth. Department of Molecular and Cellular Biology. (Last offering - Fall 2011)
Prerequisite(s): 4.00 credits including (BIOL*1040 or BIOL*1090)

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. (First offering - Winter 12)
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*3120 Systematic Bacteriology F (2-3) [0.50]
Classification, nomenclature, and identification of bacteria. Methods and approaches for the isolation and identification of bacteria are considered in the laboratory. The characteristics of some groups of common bacteria and the contributions of molecular systematics to bacterial classification are discussed. Department of Molecular and Cellular Biology. (Last offering - Fall 2011)
Prerequisite(s): MICR*2030

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 and Development W (3-1) [0.50]
Adaptation, development, and modulation of microbial physiology in response to environmental stimuli (tutorials included). Department of Molecular and Cellular Biology.
Prerequisite(s): BIOC*3560, (MBG*3070 or MBG*3080)

MICR*3270 Microbial Cell Biology W (3-0) [0.50]
This course describes the diversity in form and function in microorganisms. The structures of critical cellular components will be considered from the perspective of the cellular requirements for survival in different environments. The underlying macromolecular assembly systems will be considered 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. Department of Molecular and Cellular Biology. (Last offering - Winter 2012)
Prerequisite(s): (BIOL*2210 or MCB*2210), (MBG*2020 or MBG*2040), MICR*2030
Co-requisite(s): BIOC*3560
Restriction(s): MICR*4270

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. (First offering - Fall 2012)
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. (First offering - Winter 2013)
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*2020, MCB*2210] or MBG*2050), (MICR*2020, MICR*2420), (MICR*3230 recommended)

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*2020 or MBG*2040), (MICR*2030 or MICR*2430), MBG*3350, (MICR*3120 or MICR*3420)

### 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 B.Sc. 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*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*3060 Quantitative Genetics W (3-2) [0.50]**

This course examines the nature of Mendelian inheritance when extended to quantitative traits that are jointly influenced by the environment and the simultaneous segregation of many genes. Prediction of response to natural and artificial selection in populations will also be studied. Department of Animal and Poultry Science. (Also offered through Distance Education format.)  
Prerequisite(s): (MBG*2000 or MBG*2040), 0.50 credits in statistics

**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 MBG*2040), (1 of MICR*2020, MICR*2030, MICR*2420)

**MBG*3090 Applied Animal Genetics F (3-2) [0.50]**

This course studies the basis of, and methods for, effective use of modern animal breeding tools for practical improvement of 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. (Also offered through Distance Education format.)  
Prerequisite(s): (MBG*2000 or MBG*2040), 0.50 credits in statistics

**MBG*3100 Plant Genetics F (3-2) [0.50]**

This course examines reproduction in plants, genome organization, organelle and polyploid genetics, and analyses of mutations, genetic variation and linkage with classical and modern approaches. Department of Plant Agriculture.  
Prerequisite(s): (MBG*2000 or MBG*2040), 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): BIOL*2580, (MBG*2020 or MCB*2050)  
Restriction(s): Registration in the B.Sc. major in BIOC, BIOC:C, BTOX, BTOX:C, MICR, MICR:C, MBG, PBTC, PLSC, TOX, TOX:C

**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 sufficient 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*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): MBG*2020 or MCB*2050  
Restriction(s): MBG*3600

**MBG*4030 Animal Breeding Methods F (3-2) [0.50]**

This course provides an examination 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  
Restriction(s): MBG*4070

**MBG*4040 Genetics and Molecular Biology of Development F (3-2) [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, with an emphasis on plants. Department of Molecular and Cellular Biology.  
Prerequisite(s): MBG*2020 or MCB*2050

**MBG*4160 Plant Breeding W (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): (MBG*2000 or MBG*2040), 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

**MBG*4270 DNA Replication, Recombination and Repair W (3-0) [0.50]**

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*2020 or MCB*2050)
<table>
<thead>
<tr>
<th>MBG*4300 Plant Molecular Genetics W (3-0) [0.50]</th>
</tr>
</thead>
<tbody>
<tr>
<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.</td>
</tr>
<tr>
<td>Prerequisite(s): MBG<em>2000 or MBG</em>2040</td>
</tr>
</tbody>
</table>

Last Revision: March 15, 2014
Music

School of Fine Art and Music

Ensembles

Chamber Ensembles

Choir (Symphonic Choir, Chamber Choir, Siren-Women's Choir)

Concert Winds

Contemporary Music Ensemble

Early Music Ensemble

Jazz Band

Note: All ensembles are not necessarily offered every semester.

Solo Performance (Applied Music): Private instruction is offered in piano, voice, orchestral instruments, and various jazz and early instruments. In order to register in Applied Music (MUSC*1500), students must arrange an audition with the School of Fine Art and Music at the time of course selection. Applied Music is restricted to students registered in a Music program (general, area of concentration; honours, major or minor), in Semesters 1-4 (with the exception of Honours Majors in Music, who may audition to register in MUSC*1500 at any time in their studies).

Applied Music courses are designed to be taken in successive semesters. Registration in this sequence following an interruption of more than one semester requires permission of the Director of the School. Students may be required to re-apply before registering to continue in Applied Music. Students must achieve a minimum grade of 70% in Applied Music courses in order to proceed to the next level.

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) with 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 enroll in Applied Composition, students must be registered in a Music program (Honours major or minor, or General, Area of Concentration).

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 (an interview and submission of a portfolio) 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.

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.)

Equate(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 using recorded examples with emphasis on 20th-century compositions. (Offered in odd-numbered years.)

MUSC*2100 Creating Music on the Computer F,W (0-6) [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 Electronica: Music in the Digital Age 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 ethnomusicalological 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).
MUSC*2420 Applied Composition II F,W (1-6) [0.50]
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*2510.
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*2530 Instrumental Ensembles I F,W (0-2) [0.25]
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*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; the University of Guelph Symphonic Choir, the Chamber Choir, or Sirens. 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): 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

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 Winter (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) to the present from 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*2010 or MUSC*2140
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.)

**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.)

**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-numbered years.)

**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-numbered years.)

**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.)

**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.

**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.

**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.

**MUSC*4450 Honours Seminar in Music W (3-0) [1.00]**

The Honours Seminar in Music teaches advanced research methods common to a range of musical investigations: musicology (including ethnomusicology, popular music and jazz), music theory, music pedagogy, and musical creation. In addition, the Honours Seminar in Music allows students to engage in individual research with concentrated energy through a one semester/one credit course in a supportive peer environment. Students will develop a research project proposal for approval by the instructor in the semester prior to enrolling in this course.

**Restriction(s):** Completion of the music core.

**Prerequisite(s):** Permission of the School and registration in an honours major in music.

Instructor consent required.
## Nanoscience

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NANO*1000</td>
<td>Introduction to Nanoscience F (3-0) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*2000</td>
<td>Synthesis of Nanomaterials F (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*2100</td>
<td>Analysis of Nanomaterials W (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*2200</td>
<td>Nanolithographic Techniques W (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*2300</td>
<td>Spectroscopy of Nanomaterials W (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*3500</td>
<td>Thin Film Science F (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*3600</td>
<td>Computational Methods in Materials Science F (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*3700</td>
<td>Introduction to Quantum Computing W (3-0) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*4100</td>
<td>Biological Nanomaterials F (3-0) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*4200</td>
<td>Topics in Nanomaterials W (3-0) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*4500</td>
<td>Quantum Algorithms F (3-0) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*4510</td>
<td>Quantum Cryptography and Error Correction W (3-0) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*4900</td>
<td>Advanced Studies in Nanoscience S,F,W (1-5) [0.50]</td>
<td></td>
</tr>
<tr>
<td>NANO*4910</td>
<td>Nanoscience Research Project S,F,W (0-6) [0.50]</td>
<td></td>
</tr>
</tbody>
</table>

**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, MATH*1210, PHYS*1010

**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*2200 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 (XUV, 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*2300 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 implementation 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*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: review of the quantum circuit model, classical versus quantum algorithms, phase kick-back, Deutsch-Jozsa algorithm, Simon's algorithm, quantum Fourier transform, Shor's factoring algorithm, Grover's search algorithm, and an introduction to quantum computational complexity.

**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]**

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.
# Neuroscience

## NEUR*4000 Current Issues in Neuroscience F (3-0) [0.50]

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.

*Prerequisite(s):* 12.50 credits  
*Restriction(s):* Enrolment restricted to Neuroscience minor.

## NEUR*4401 Research in Neurosciences S,F,W (0-6) [0.50]

This is the first part of the two-semester course NEUR*4401/2. Refer to NEUR*4401/2 for the course description. Department of Biomedical Sciences.

*Prerequisite(s):* 14.00 credits  
*Restriction(s):* BIOM*4510, BIOM*4521/2, NEUR*4450. Instructor consent required. Enrolment restricted to Neuroscience minor.

## NEUR*4401/2 Research in Neurosciences S,F,W,S,S (0-6) [1.00]

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*4401 in the first semester and NEUR*4402 in the second semester. A grade will not be assigned in NEUR*4401 until NEUR*4402 has been completed. Department of Biomedical Sciences.

*Prerequisite(s):* 14.00 credits  
*Restriction(s):* BIOM*4510, BIOM*4521/2, NEUR*4450. Instructor consent required. Enrolment restricted to Neuroscience minor.

## NEUR*4402 Research in Neurosciences S,F,F,W,S,S (0-6) [0.50]

This is the second part of the two-semester course NEUR*4401/2. Refer to NEUR*4401/2 for the course description. Department of Biomedical Sciences.

*Prerequisite(s):* NEUR*4401  
*Restriction(s):* BIOM*4510, BIOM*4521/2, NEUR*4450. Enrolment restricted to Neuroscience minor.

## NEUR*4450 Research in Neurosciences S,F,W (0-12) [1.00]

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.

*Prerequisite(s):* 14.00 credits  
*Restriction(s):* BIOM*45102, BIOM*4521/2, NEUR*4401/2. Instructor consent required. Enrolment restricted to Neuroscience minor.
### Natural Resource Studies

#### NRS*2050 The Landscape of Scotland W (3-0) [0.50]
This course enables you to explore the Scottish landscape and its natural resources through a major research project, on any topic from geology, through forestry, agriculture, parks and recreation, to modern tourism. You will consider the relationship between the land itself, its history, and the use made of that land today. The course will emphasize recognizing relationships between the natural environment and human society and considering how we manage that relationship. (Offered through Distance Education only.)

#### NRS*2120 Introduction to Environmental Stewardship S,F (3-2) [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. (Also offered through Distance Education format.)

**Equate(s):** SOIL*2120

#### NRS*3000 Environmental Issues in Agriculture and Landscape Management W (3-2) [0.50]
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.

**Prerequisite(s):** AGR*2320 or SOIL*2010

**Equate(s):** SOIL*3000

**Restriction(s):** AGR*2301, SOIL*2200

#### NRS*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.

**Prerequisite(s):** 9.00 credits of a relevant program, such as all majors in the B.Sc.(Env.), or other degree programs such as Geography, Ecology, Agriculture.

**Restriction(s):** Instructor consent required.

#### NRS*3100 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.

**Prerequisite(s):** SOIL*3050

**Equate(s):** SOIL*3100

#### NRS*4110 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).

**Prerequisite(s):** NRS*3100 or SOIL*3100

**Equate(s):** SOIL*4110

**Restriction(s):** Registration in B.Sc.(Env.) (NRM) and B.Sc.(Agr.) (AGMN). Instructor consent required.
### 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.)

**Prerequisite(s):** NUTR*1010

**Restriction(s):** NUTR*3010

---

**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.)

**Prerequisite(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 (3-0) [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, 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):** BIOC*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

---

**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 (3-3) [0.75]**

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. Laboratories will provide the students with hands-on training of diet and anthropometric methods. Cases will be used to develop the understanding of the concepts discussed in lectures and expand on the ethical treatment of individual and group data. 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 (3-3) [0.75]**

This course is a continuation of NUTR*3040. This lecture and laboratory based course is concerned with the application of nutrition to clinical problems. 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. A case study based course. Department of Family Relations and Applied Nutrition.

**Prerequisite(s):** 14.50 credits including, [1 of BIOM*2000, (BIOM*3110 or BIOC*3110), NUTR*3040

**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

---

The last revision was on March 15, 2014.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
</table>
| NUTR*4120  | Applied Clinical Skills W (0-3) [0.50]           |         | 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. (First offering Winter 2013)  
**Prerequisite(s):** NUTR*4010, NUTR*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. |
| NUTR*4210  | Nutrition, Exercise and Energy Metabolism F (3-0) [0.50] |         | 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*3210, (1 of BIOM*3110, BIOM*3200, HK*3940) |
| NUTR*4320  | Nutrition and Metabolic Control of Disease W (3-0) [0.50] |         | 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*3210, (1 of BIOM*3110, BIOM*3200, HK*3940, ZOO*3210) |
| NUTR*4330  | Applied Nutritional and Nutraceutical Sciences II W (3-3) [0.75] |         | 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*3210, NUTR*3330, NUTR*3390, HK*3940  
**Restriction(s):** Registration in B.Sc. NANS major or minor. |
| NUTR*4350  | Current Issues in Nutrition F (3-0) [0.50]        |         | This course discusses controversial and/or emerging topics in Human Biology 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*3210, HK*3940 |
| NUTR*4360  | Current Issues in Nutrigenomics W (3-0) [0.50]    |         | 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*3210, (BIOM*3200 or HK*3940) |
| NUTR*4510  | Toxicology, Nutrition and Food F (3-0) [0.50]     |         | This course examines the role of foods, herbas 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 |
| NUTR*4910  | Applied Human Nutrition 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):** NUTR*4810 |

**NUTR*4900 Selected Topics in Human Nutrition W (3-0) [0.50]**  
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*3070, NUTR*3040, NUTR*4010  
**Restriction(s):** Registration in B.A.Sc. AHN major  

**NUTR*4910 Applied Human Nutrition 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):** NUTR*4810
Organic Agriculture

**OAGR*2050 Gateway to Organic Agriculture F (3-3) [0.50]**

This introductory course will expose students to the scale of the organic industry today, including the factors driving interest in organics for both producers and consumers. The foundational ecological, economic and social principles underlying contemporary organic agriculture will be presented. First hand experience of current organic practices will be provided through factors driving interest in organics for both producers and consumers.

Prerequisite(s): 5.00 credits

Equate(s): CROP*2050

Restriction(s): CROP*3400

**OAGR*2300 Organic Marketing F,W (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

**OAGR*3030 Tutorials in Organic Agriculture 1 F (3-2) [0.50]**

This course will rely on small group mentoring to stimulate independent, learner-centered analysis of selected topics in organic agriculture. Topics will centre on nutrient management of organic farms, and related topics such as food quality and safety, energy use efficiency and greenhouse gas emissions, animal welfare and traceability. Seminar periods will support student-led discussion of assigned readings, student presentations and guest speakers.

Prerequisite(s): 1 of CROP*2050, OAGR*2050,

Equate(s): SOIL*3030

**OAGR*3130 Tutorials in Organic Agriculture II W (3-2) [0.50]**

This course will rely on small group mentoring to stimulate independent, learner-centered analysis of selected topics in organic agriculture. Students will explore methods for production of high quality, organic products including seed collection and storage, weed control options underlying crop production, practices, and harvesting and handling methods. Students will have an opportunity to conduct in-depth research in the form of a case study of organic agricultural practices in a country of their choice. Seminar periods will support student-led discussion of assigned readings, student presentations and guest speakers.

Prerequisite(s): 1 of CROP*2050, OAGR*2050,

Equate(s): CROP*3130

**OAGR*4160 Design of Organic Production Systems F (2-3) [0.50]**

This interdisciplinary course applies organic principles to managed agroecosystems. It covers the interactions of soils, plants and animals with managerial and environmental factors for production of annual and perennial crops and livestock. The core principle of problem avoidance rather than problem solving is illustrated with examples and exercises on integration of crop and livestock agriculture, farm scale nutrient budgeting, permaculture, and herd health in the production of organic field crops, horticultural crops, and livestock.

Prerequisite(s): (1 of AGR*2350, CROP*4220, SOIL*4250) or (OAGR*3030, OAGR*3130)

Equate(s): SOIL*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>
</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>
</tr>
<tr>
<td></td>
<td>Parasitism is the most common biological association on the planet; virtually all organisms are parasitized by numerous parasites and many, such as the protists 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.</td>
<td></td>
<td></td>
</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>
</tr>
<tr>
<td></td>
<td>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.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PATH*4100</td>
<td>Diseases of Aquatic Animals F (2-2) [0.50]</td>
<td></td>
<td>PATH*3610</td>
</tr>
<tr>
<td></td>
<td>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.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

*Prerequisite(s):* 10.00 credits including at least 1.50 credits in biology.

*Restriction(s):* PATH*3600
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.
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, Epictetus, 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*2220 Philosophy and 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 art forms; 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)
PHIL.2250 Knowledge, Mind and Language F (3-0) [0.50]
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.
Pre requisite(s): 2.00 credits or (1 of PHIL.1000, PHIL.1010, PHIL.1050)

PHIL.2350 Selected Topics in Philosophy I U (3-0) [0.50]
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: http://www.uoguelph.ca/philosophy/
Pre requisite(s): 2.00 credits or (1 of PHIL.1000, PHIL.1010, PHIL.1050)

PHIL.2370 Introduction to Metaphysics W (3-0) [0.50]
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.)
Pre requisite(s): 2.00 credits or (1 of PHIL.1000, PHIL.1010, PHIL.1050)

PHIL.2600 Business and Professional Ethics W (3-0) [0.50]
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.
Pre requisite(s): 2.00 credits or (1 of PHIL.1000, PHIL.1010, PHIL.1050)

PHIL.3040 Philosophy of Law F (3-0) [0.50]
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. Thinkers 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.
Pre requisite(s): 1.50 credits in Philosophy or 7.50 credits or PHIL.2120

PHIL.3050 Philosophy of Art W (3-0) [0.50]
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.)
Pre requisite(s): 1.50 credits in Philosophy or 7.50 credits

PHIL.3060 Medieval Philosophy W (3-0) [0.50]
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.)
Pre requisite(s): 1.50 credits in Philosophy

PHIL.3080 History of Modern European Philosophy from Kant F (3-0) [0.50]
A survey of European philosophy from Immanuel Kant (mid-18th century) to the late 19th century.
Pre requisite(s): 1.50 credits in Philosophy

PHIL.3090 Philosophy of Kant W (3-0) [0.50]
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.)
Pre requisite(s): 1.50 credits in Philosophy

PHIL.3130 Contemporary British and American Philosophy F (3-0) [0.50]
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 "the linguistic turn" - 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 "ordinary language philosophy," neopragmatism and naturalized philosophy.
Pre requisite(s): 1.50 credits in Philosophy or 7.50 credits

PHIL.3170 Critical Debates in the Philosophy of Science W (3-0) [0.50]
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 anti-realism, naturalized explanations, the unity/disunity of science, and feminist approaches to science. (Offered in even-numbered years.)
Pre requisite(s): PHIL.2180

PHIL.3180 Philosophy of Mind W (3-0) [0.50]
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.)
Pre requisite(s): 1.50 credits in Philosophy

PHIL.3190 Theory of Knowledge I F (3-0) [0.50]
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.)
Pre requisite(s): 1.50 credits in Philosophy

PHIL.3200 Contemporary European Philosophy W (3-0) [0.50]
A survey of philosophical movements mainly centred in continental Europe from the late 19th-century to the present.
Pre requisite(s): 1.50 credits in Philosophy

PHIL.3210 Women in the History of Philosophy F (3-0) [0.50]
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: http://www.uoguelph.ca/philosophy/ (Offered in odd-numbered years.)
Pre requisite(s): 1.50 credits in Philosophy or 7.50 credits

PHIL.3220 Issues in Social and Political Philosophy W (3-0) [0.50]
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.)
Pre requisite(s): 1.50 credits in Philosophy or 7.50 credits

PHIL.3240 Philosophy of Technology F (3-0) [0.50]
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.)
Pre requisite(s): 1.50 credits in Philosophy or 7.50 credits.

PHIL.3250 Philosophy of Language F (3-0) [0.50]
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.)
Pre requisite(s): 1.50 credits in Philosophy or 7.50 credits

PHIL.3280 21st Century Philosophy F (3-0) [0.50]
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.
Pre requisite(s): 1.50 credits in Philosophy
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/
Prerequisite(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/
Prerequisite(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.)
Prerequisite(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.
Prerequisite(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.
Prerequisite(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.
Prerequisite(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.)
Prerequisite(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.)
Prerequisite(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.)
Prerequisite(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.
Prerequisite(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/
Prerequisite(s): PHIL*2110, 1.00 credits in Philosophy at the 3000 level

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.
Prerequisite(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.
Prerequisite(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.
Prerequisite(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 of 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/
Prerequisite(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/
Prerequisite(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.
Prerequisite(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.
Prerequisite(s): 1.00 credits in Philosophy at the 3000 level

PHIL*4390 Selected Topics in Philosophy III U (3-0) [0.50]
Open to honors philosophy students in their 7th and 8th semesters.
Prerequisite(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.
Prerequisite(s): 1.00 credits in Philosophy at the 3000 level
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL*4410 Major Texts in Philosophy U (3-0) [0.50]</td>
<td>Advanced study of a major text in philosophy not treated in either PHIL<em>4400 or PHIL</em>4420.</td>
<td>0.50</td>
</tr>
<tr>
<td>PHIL*4420 Major Texts in Philosophy U (3-0) [0.50]</td>
<td>Advanced study of a major text in philosophy not treated in either PHIL<em>4400 or PHIL</em>4410.</td>
<td>0.50</td>
</tr>
<tr>
<td>PHIL*4500 Philosophy Honours Seminar U (3-0) [1.00]</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</td>
</tr>
<tr>
<td>PHIL*4550 Philosophy Honours Workshop U (3-0) [1.00]</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</td>
</tr>
<tr>
<td>PHIL*4710 Directed Reading F,W (3-0) [0.50]</td>
<td>This course is intended as an intensive course of reading chosen by the student in consultation with the faculty member.</td>
<td>0.50</td>
</tr>
<tr>
<td>PHIL*4720 Directed Reading F,W (3-0) [0.50]</td>
<td>This course is intended as an intensive course of reading chosen by the student in consultation with the faculty member.</td>
<td>0.50</td>
</tr>
<tr>
<td>PHIL*4800 Honours Philosophy Research Paper I U (3-0) [0.50]</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>0.50</td>
</tr>
</tbody>
</table>
### Portuguese

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Offered</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT*1100</td>
<td>Introductory Portuguese (Brazilian Culture) F (3-0) [0.50]</td>
<td>F</td>
<td>0.50</td>
</tr>
<tr>
<td>PORT*1110</td>
<td>Intermediate Portuguese (Brazilian Culture) W (3-0) [0.50]</td>
<td>W</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**PORT*1100 Introductory Portuguese (Brazilian Culture) F (3-0) [0.50]**

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.

**Restriction(s):** Instructor Consent Required.

**PORT*1110 Intermediate Portuguese (Brazilian Culture) W (3-0) [0.50]**

This course is a continuation of Introductory Portuguese with emphasis on oral work. The learning context will be present-day Brazilian culture.

**Prerequisite(s):** PORT*1100

**Restriction(s):** Instructor Consent Required.
Physics

Department of Physics

PHYS*1000 An Introduction to Mechanics F (3-3) [0.50]
This course is 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): 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): (MATH*1080 or MATH*1200), (1 of 4U Physics, Grade 12 Physics, PHYS*1020)

PHYS*1020 Introductory Physics F,W (3-2) [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*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.)

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, OAC Physics, PHYS*1020), one 4U or OAC Mathematics course
Restriction(s): PHYS*1130

PHYS*1080 Physics for Life Sciences F,W (3-3) [0.50]
This is a complementary course to PHYS*1070 or PHYS*1130 with emphasis on some aspects of classical physics important in the biological and environmental sciences. Topics include mechanics and applications to anatomical problems, fluid statics and dynamics, molecular motion, diffusion, osmosis, and heat.
Prerequisite(s): (1 of 4U Physics, Grade 12 Physics, PHYS*1020), one 4U or Grade 12 Mathematics course
Restriction(s): PHYS*1000

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): (MATH*1080 or 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. (Also offered through Distance Education format.)
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.)
Equates(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 S,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 MATH*1000, MATH*1080, MATH*1200), (PHYS*1010 or 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): (MATH*1210+ or MATH*2080), (PHYS*1000+ or PHYS*1080) (+ preferred)
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, DC circuits, transients and dielectric materials.
Prerequisite(s): (MATH*1210+ or MATH*2080), (1 of PHYS*1010+ or PHYS*1070, PHYS*1130) (+ preferred)
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, Ampere's Law, magnetic induction, LR circuits, transients 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 MATH*1210+, MATH*2080), (PHYS*1000+ or PHYS*1080) (+ preferred)

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

2011-2012 Undergraduate Calendar
Last Revision: March 15, 2014
PHYS*2460 Electricity and Magnetism II F (3-3) [0.75]

This course is a continuation of PHYS*2460. Topics include magnetic forces and fields, the Biot-Savart equation, Ampere's Law, magnetic induction, LRC transients, A.C. circuits and magnetic materials, Maxwell's equations and the propagation of electromagnetic waves in vacuum.

Prerequisite(s): PHYS*2460

PHYS*2470 Electricity and Magnetism I F (3-3) [0.75]

This course includes electric and magnetic fields, potential, electric work and energy, Gauss's Law, Poisson's and Laplace's equations, capacitors, D.C. circuits, transients and dielectric materials. The laboratory work requires a formal treatment of error analysis, as well as computer programming for data analysis.

Prerequisite(s): (1 of PHYS*1010+, PHYS*1070, PHYS*1130), (MATH*1210+ or MATH*2080) (+preferred)
Co-requisite(s): PHYS*2440

PHYS*2550 Radiation and the Environment F (3-0) [0.50]

This course reviews radiations which occur in the environment and their effects on materials and living systems. These include x-rays, ultraviolet, visible, infrared, microwave and radio-frequency emissions; acoustical and ultrasonic radiation; and alpha, beta, and gamma radiation from radioactive material. (Offered in even-numbered years.)

Prerequisite(s): (1 of PHYS*1010, PHYS*1070, PHYS*1130), 0.50 credits in mathematics at the 1000 level (excluding MATH*1050)

PHYS*2600 General Astronomy F (3-2) [0.50]

An introduction to astronomy, this course covers the solar system, the sun, stellar and galactic structure. (Offered in odd-numbered years.)

Prerequisite(s): 0.50 credits in physics at the 1000 level (excluding PHYS*1600, PHYS*1810), 0.50 credit in mathematics at the 1000 level

PHYS*2600 Energy W (3-0) [0.50]

This course covers energy resources and the production, transmission, interconversion, consumption and waste of energy in the industrial society. Emphasis is placed on environmental impact and human safety. Topics include fossil fuels, nuclear fission and fusion, wind and solar power, the hydrogen economy, and conservation strategies.

Prerequisite(s): (PHYS*1000 or PHYS*1080), (1 of PHYS*1010, PHYS*1070, PHYS*1130), (1 of MATH*1000 , MATH*1080, MATH*1200)

PHYS*3100 Electronics F (3-3) [0.75]

This course consists of an introduction to network analysis, the physics of semiconductors, p-n junctions, transistors and integrated circuits. Other topics include: amplifier properties, signal processing using operational amplifiers, an introduction to digital electronics including counters and registers, as well as circuits to convert analog signals to digital and vice-versa. The laboratory illustrates lecture topics, and a major component consists of techniques to interface a computer to integrated circuits for data acquisition.

Prerequisite(s): PHYS*2340 or PHYS*2470

PHYS*3220 Waves and Optics W (3-0) [0.50]

This course demonstrates the importance of waves in many areas of physics, with an emphasis on waves in optics. The concept of waves is presented within the framework of the mathematics of periodic functions, with discussions of normal modes in oscillatory systems involving both stationary and propagating modes, and Fourier analyses using both series and integral forms. Examples will emphasize applications involving visible light waves such as polarization, interference and diffraction. In addition, other electromagnetic waves and sound waves will be discussed.

Prerequisite(s): PHYS*2310 or PHYS*2440

PHYS*3230 Quantum Mechanics I F (3-0) [0.50]

This course consists of a formal treatment of quantum mechanics. Topics include wave packets and free particle motion, the Schrodinger equation, harmonic oscillator, piecewise constant potentials, central forces and angular momentum, and the hydrogen atom.

Prerequisite(s): (CHEM*2070 or PHYS*2260), MATH*2160, (MATH*2170 or MATH*2270), (PHYS*2340 or PHYS*2470)

PHYS*3240 Statistical Physics I S,F (3-0) [0.50]

This course is an introduction to statistical physics including thermodynamics and statistical mechanics of equilibrium phenomena.

Prerequisite(s): (1 of PHYS*2260, PHYS*2310, PHYS*2440)
Co-requisite(s): MATH*2200

PHYS*3300 Advanced Mechanics W (3-0) [0.50]

This course covers Lagrangian mechanics and Hamiltonian mechanics. Topics include least action principles, Poisson brackets, Liouville's theorem, Hamilton-Jacobi theory, the transition to quantum mechanics and introduction to non-linear dynamics.

Prerequisite(s): (MATH*2170 or MATH*2270), (PHYS*2320 or PHYS*2450)

PHYS*3510 Intermediate Laboratory W (0-6) [0.50]

This modular course consists of experiments in modern and classical physics. Modules include laboratory instrumentation employing computers, modern physics, waves and optics, molecular physics, biophysics, and solid state physics.

Prerequisite(s): [PHYS*2450 or (NANO*2100, PHYS*2320)], PHYS*3100

PHYS*4001 Research in Physics F (0-6) [0.50]

This course is the first part of the two-semester course PHYS*4001/2. Refer to PHYS*4001/2 for the course description.

Prerequisite(s): PHYS*3510
Restriction(s): PHYS*4510: Instructor consent required.

PHYS*4001/2 Research in Physics F-W (0-6) [1.00]

This is a two-semester (F-W) course in which students apply their knowledge and skills through independent research of an experimental or theoretical nature within physics. Students will be required to present their results in both oral and written reports. Students must make arrangements with a faculty supervisor and obtain approval of the course coordinator before course selection. Approval of the course coordinator will only be granted upon receipt of a completed registration form, available from the course coordinator during the course selection period. This is a two-semester course offered over consecutive semesters. When you select it, you must select PHYS*4001 in the Fall semester and PHYS*4002 in the Winter semester. A grade will not be assigned to PHYS*4001 until PHYS*4002 has been completed.

Prerequisite(s): PHYS*3510
Restriction(s): PHYS*4510: Instructor consent required.

PHYS*4040 Quantum Mechanics II W (3-0) [0.50]

A second course in quantum mechanics. Topics include spin, linear vector spaces, two-level systems, quantum dynamics, rotations and angular momentum, time dependent perturbation theory. Born approximation.

Prerequisite(s): PHYS*3230

PHYS*4120 Atomic and Molecular Physics F (3-0) [0.50]

The application of quantum theory to atomic and molecular structure, and the interaction between electromagnetic radiation and atoms and simple molecules.

Prerequisite(s): PHYS*3240, PHYS*4040

PHYS*4130 Subatomic Physics W (3-0) [0.50]

This course surveys the field of subatomic physics from radioactive emanations to conjectured subunits of nucleons. Topics include quark models; strong, electromagnetic and weak interactions; isospin, strangeness, conservation laws and symmetry principles; systematics of nuclear properties, nuclear radioactivity, nuclear models and reactions.

Prerequisite(s): PHYS*3230

PHYS*4150 Solid State Physics W (3-0) [0.50]

Bonding in solids, thermal and electrical properties of solids, energy bands, imperfections in solids, properties of semiconductors and insulators.

Prerequisite(s): PHYS*3220, PHYS*3230, PHYS*3240 Recommended: PHYS*4240
Co-requisite(s): PHYS*4040 (if not taken as a pre-requisite)

PHYS*4180 Advanced Electromagnetic Theory F (3-0) [0.50]

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 electrodynamics and magnetostatics (including boundary-value problems), motion of charged particles in electromagnetic fields, and propagation and generation of electromagnetic waves.

Prerequisite(s): (PHYS*2340 or PHYS*2470)

PHYS*4240 Statistical Physics II F (3-0) [0.50]

A continuation of PHYS*3240 including a discussion of the grand canonical distribution, quantum statistics, and transport theory.

Prerequisite(s): PHYS*3230, PHYS*3240
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS*4300</td>
<td>Inquiry in Physics W (0-6) [0.50]</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. Prerequisite(s): 7.00 PHYS credits.</td>
</tr>
<tr>
<td>PHYS*4500</td>
<td>Advanced Physics Laboratory F (0-6) [0.50]</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. Prerequisite(s): [PHYS<em>2450 or (NANO</em>2100, PHYS<em>2320)], (PHYS</em>3100 or XSEN*4110)</td>
</tr>
<tr>
<td>PHYS*4540</td>
<td>Molecular Biophysics W (3-0) [0.50]</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. Prerequisite(s): 0.50 credits in biochemistry, (CHEM<em>3860 or PHYS</em>3230)</td>
</tr>
<tr>
<td>PHYS*4560</td>
<td>Biophysical Methods F (3-0) [0.50]</td>
<td>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. Students taking this course should already have taken PHYS<em>4240 or be taking this course concurrently. Prerequisite(s): PHYS</em>3220, PHYS<em>4040 Co-requisite(s): PHYS</em>4240 (if not taken as a prerequisite)</td>
</tr>
<tr>
<td>PHYS*4910</td>
<td>Advanced Topics in Physics I U (3-0) [0.50]</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. Prerequisite(s): (MATH<em>2150 or MATH</em>2160), (MATH<em>2170 or MATH</em>2270), (PHYS<em>2320 or PHYS</em>2450), (PHYS<em>2340 or PHYS</em>2470)</td>
</tr>
<tr>
<td>PHYS*4920</td>
<td>Advanced Topics in Physics II U (3-0) [0.50]</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. Prerequisite(s): (MATH<em>2150 or MATH</em>2160), (MATH<em>2170 or MATH</em>2270), (PHYS<em>2320 or PHYS</em>2450), (PHYS<em>2340 or PHYS</em>2470)</td>
</tr>
<tr>
<td>PHYS*4930</td>
<td>Advanced Topics in Physics III U (3-0) [0.50]</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. Prerequisite(s): (MATH<em>2150 or MATH</em>2160), (MATH<em>2170 or MATH</em>2270), (PHYS<em>2320 or PHYS</em>2450), (PHYS<em>2340 or PHYS</em>2470)</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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM*4020</td>
<td>Physiology of Digestion</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOM*4030</td>
<td>Endocrine Physiology</td>
<td>0.50</td>
</tr>
<tr>
<td>BIOM*4041/2</td>
<td>Mammalian Reproductive Biology</td>
<td>1.00</td>
</tr>
<tr>
<td>BIOM*4050</td>
<td>Biomedical Aspects of Aging</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**School of Human Biology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HK*4320</td>
<td>Work Physiology</td>
<td>0.50</td>
</tr>
<tr>
<td>HK*4460</td>
<td>Regulation of Human Metabolism</td>
<td>0.50</td>
</tr>
<tr>
<td>HK*4530</td>
<td>Human Cardiovascular Physiology</td>
<td>0.50</td>
</tr>
</tbody>
</table>

**Department of Integrative Biology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOO*4170</td>
<td>Experimental Comparative Animal Physiology</td>
<td>0.50</td>
</tr>
<tr>
<td>ZOO*4390</td>
<td>Environmental Physiology</td>
<td>0.50</td>
</tr>
<tr>
<td>ZOO*4470</td>
<td>Comparative Endocrinology</td>
<td>0.50</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>PBIO*3110</td>
<td>Crop Physiology F (3-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>PBIO*3750</td>
<td>Plant Tissue Culture F (2-3) [0.50]</td>
<td></td>
</tr>
<tr>
<td>PBIO*4000</td>
<td>Molecular and Cellular Aspects of Plant-Microbe Interactions F (3-0) [0.50]</td>
<td></td>
</tr>
<tr>
<td>PBIO*4100</td>
<td>Soil Plant Relationships W (3-0) [0.50]</td>
<td></td>
</tr>
<tr>
<td>PBIO*4150</td>
<td>Molecular and Cellular Aspects of Plant Development W (3-0) [0.50]</td>
<td></td>
</tr>
<tr>
<td>PBIO*4530</td>
<td>Environmental Pollution Stresses on Plants W (3-0) [0.50]</td>
<td></td>
</tr>
<tr>
<td>PBIO*4750</td>
<td>Genetic Engineering of Plants W (3-3) [0.50]</td>
<td></td>
</tr>
</tbody>
</table>
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.

POLS*1150 Understanding 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): POLS*1000, POLS*1300

POLS*1400 Issues in Canadian Politics F (3-1) [0.50]

Through the lens of contemporary political issues, this course will examine the pillars of the Canadian political system - parliamentary government, federalism and the Charter of Rights and Freedoms - and how they reflect and affect the distinctly Canadian societal cleavages: linguistic, regional, ethnic, national, and sexual. Students will develop an awareness and understanding of these concepts, institutions and processes, which will enhance their ability to interpret current political events and provide a foundation upon which to explore Canadian politics, identity, public policy and governance in upper level political science courses. (Also offered through Distance Education format.)

POLS*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.)

POLS*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.

POLS*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.

POLS*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.

POLS*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.

POLS*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.

POLS*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): POLS*1150 or POLS*1400

POLS*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.)

POLS*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): POLS*2080 or POLS*2100

POLS*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): POLS*1400 or POLS*2300

POLS*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, Iraq, 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): POLS*2080 or POLS*2100

POLS*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): POLS*2080 or POLS*2100

POLS*3100 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 POLS*1400, POLS*2250, POLS*2300

POLS*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): POLS*2080 or POLS*2100

POLS*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 POLS*2080, POLS*2100, POLS*2200, POLS*2250

POLS*3210 The Constitution and Canadian Federalism W (3-0) [0.50]

Canada’s constitution and its federal system lie 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): POLS*2300

POLS*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, Jonathan 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): POLS*2000 or POLS*3280

Restriction(s): POLS*3021

POLS*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 non-governmental actors.

Prerequisite(s): POLS*1400 or POLS*2250
POLS*3320 Local Government in Ontario U (3-0) [0.50]
Municipal governments are major spenders of public funds in Canada, and are also the
evel 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

POLS*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.

POLS*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

POLS*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

POLS*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

POLS*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

POLS*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

POLS*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

POLS*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.

POLS*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).

POLS*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

POLS*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

POLS*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

POLS*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.

POLS*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

POLS*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

POLS*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.
Restriction(s): 1.50 credits at the 3000 level in Political Science or equivalent
Restriction(s): Instructor consent required.

POLS*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.
POLS*4050 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. POLS*3130 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.

POLS*4100 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 assault, family policy, health care policy, and pornography. How do current policies that developed out of neohumanism 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 POLS*2250, POLS*2300, POLS*2350 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.

POLS*4140 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): POLS*2300 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.

POLS*4160 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): POLS*2300 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.

POLS*4200 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 POLS*2080, POLS*2100, POLS*2200) 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.

POLS*4250 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): POLS*2250 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.

POLS*4260 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 POLS*2250, POLS*2300, POLS*3250), 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.

POLS*4300 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.
Prerequisite(s): (POLS*2000 and 1.00 credits in the Political Thought stream) or (POLS*2000 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.

POLS*4340 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 POLS*2000, POLS*2100, POLS*2200), (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).

POLS*4710 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): POLS*2080 or POLS*2100 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.

POLS*4720 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): POLS*2200 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.

POLS*4740 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): POLS*3130 or POLS*3210 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.

POLS*4910 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

**Department of 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC*1100</td>
<td>Principles of Behaviour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*1200</td>
<td>Dynamics of Behaviour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*2010</td>
<td>Quantification in Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*2040</td>
<td>Research Statistics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*2310</td>
<td>Introduction to Social Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*2330</td>
<td>Principles of Learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*2360</td>
<td>Introductory Research Methods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*2390</td>
<td>Principles of Sensation and Perception</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*2410</td>
<td>Behavioural Neuroscience</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*2450</td>
<td>Introduction to Developmental Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*2650</td>
<td>Cognitive Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*2740</td>
<td>Personality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*3030</td>
<td>Neurochemical Basis of Behaviour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*3070</td>
<td>Psychology in Human Resource Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*3080</td>
<td>Organizational Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*3100</td>
<td>Evolutionary Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC*3110</td>
<td>Topics in Health Psychology</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PSYC*3250 Psychological Measurement U (3-0) [0.50]
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)
Prerequisite(s): PSYC*2010 or STAT*2040 (also see psychology core statement)

PSYC*3280 Minds, Brains & Machines F (3-0) [0.50]
This course will introduce the student to basic issues in cognitive science from philosophico-logical and psychological perspectives, Connectionism, Turing Machines, artificial intelligence, and alternative naturalistic models of the mind will be among the topics explored. 
Prerequisite(s): 1.50 credits in Psychology or 1.50 credits in Philosophy

PSYC*3300 The Psychology of Gender U (3-0) [0.50]
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.
Prerequisite(s): PSYC*1200 and at least 1.00 credits of the psychology core (also see psychology core statement)

PSYC*3310 Applied Social Psychology U (3-0) [0.50]
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.
Prerequisite(s): PSYC*2310 (also see psychology core statement)

PSYC*3330 Memory U (3-0) [0.50]
This course is an examination of theoretical and empirical studies of the psychological nature of the acquisition, storage and retrieval of information. Students will be exposed to and participate in on-line laboratory demonstrations and experiments.
Prerequisite(s): PSYC*2650 (also see psychology core statement)

PSYC*3340 Psycholinguistics U (3-0) [0.50]
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.
Prerequisite(s): LING*1000 or PSYC*2650 (also see psychology core statement)

PSYC*3350 Cross-Cultural Psychology F (3-0) [0.50]
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.
Prerequisite(s): 9.50 credits including PSYC*2310

PSYC*3370 Experimental Design and Analysis F (3-1) [0.50]
This course is intended for students planning to complete PSYC*4870 and PSYC*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)
Prerequisite(s): PSYC*2360, (1 of PSYC*2040, PSYC*3320 or STAT*2050)
Restriction(s): PSYC*3371/2. A minimum grade point average of 75% in Psychology courses.

PSYC*3380 Non-experimental Research Methods W (3-0) [0.50]
This course is intended for students planning to complete PSYC*4870 and PSYC*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)
Prerequisite(s): PSYC*2360, (1 of PSYC*2040, PSYC*3320 or STAT*2050)
Restriction(s): PSYC*3371/2. A minimum grade point average of 75% in Psychology courses.

PSYC*3390 Abnormal Psychology U (3-0) [0.50]
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.)
Prerequisite(s): PSYC*2740 (also see psychology core statement)

PSYC*3410 Behavioural Neuroscience II U (3-0) [0.50]
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.
Prerequisite(s): PSYC*2410 (also see psychology core statement)

PSYC*3440 Cognitive Development U (3-0) [0.50]
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.
Prerequisite(s): FRHD*2270 or PSYC*2450 (also see psychology core statement)

PSYC*3450 Social and Personality Development U (3-0) [0.50]
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.
Prerequisite(s): FRHD*2270 or PSYC*2450 (also see psychology core statement)

PSYC*3450 Social Psychology U (3-0) [0.50]
Theory, research and aspects of current practice concerning abnormal psychological development in childhood and adolescence.
Prerequisite(s): PSYC*3440 or PSYC*3450 (also see psychology core statement)

PSYC*3480 Psychology of Sport U (3-0) [0.50]
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.
Prerequisite(s): PSYC*1100, PSYC*1200, (PSYC*2310 or PSYC*2740) (also see psychology core statement)

PSYC*3570 The Psychology of Death and Dying U (3-0) [0.50]
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.)
Prerequisite(s): 1 of PSYC*2310, PSYC*2740, PSYC*2450, work experience in related fields, instructor consent (also see psychology core statement)

PSYC*3600 Contemporary Psychology U (3-0) [0.50]
Some recent 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.
Prerequisite(s): previous study related to the topic area (also see psychology core statement)

PSYC*3690 Community Mental Health U (3-0) [0.50]
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.
Prerequisite(s): PSYC*2310 (also see psychology core statement)

PSYC*3710 Psychology of Learning Difficulties and Disabilities I F (3-0) [0.50]
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.)
Prerequisite(s): 1 of FRHD*2270, PSYC*2450, PSYC*2650 (also see psychology core statement)

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
PSYC*3720 Psychology of Learning Difficulties and Disabilities II W (3-0) [0.50]
Continuation of PSYC*3710. Students will develop and report on a systematic remedial project involving an underachieving school-age child.
Prerequisite(s): PSYC*3710 (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): PSYC*1100, (PSYC*1200 or FRHD*2270) (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,W,S (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): PSYC*1100, PSYC*1200, PSYC*2010 and at least 1.00 credits at the 2000 level of the psychology core
Restriction(s): Instructor consent required.

PSYC*3910 Psychology Externship F,W,S (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 not 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): (PSYC*1100, PSYC*1200, PSYC*2010 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. (H)
Prerequisite(s): 14 credits including PSYC*2330
Restriction(s): Registration in a Psychology Major of an Honours Program or Neuroscience Minor; PSYC*3430

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. (H)
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. (H)
Prerequisite(s): PSYC*3310 or PSYC*3500

PSYC*4330 Advanced Topics in I/O Psychology (H) 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 topics 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. (H)
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*4400, or this course, prior to, or concurrent with, either PSYC*4870 or PSYC*4880 (see Graduate Advisory Note under Major). (H)
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. (H)
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. (H)
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. (H)
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. (H)
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. (H)
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. (H)
Prerequisite(s): PSYC*2360, (1 of PSYC*2390, PSYC*2410, PSYC*2650), (also see psychology core statement)
Restriction(s): PSYC*4400
### 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 [(PSYC*2010 or STAT*2040), (1 of PSYC*2040, PSYC*3320, STAT*2050)]

**Restriction(s):** Instructor consent required.

### PSYC*4880 Honours Thesis II S,F,W (3-0) [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 course surveys 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.

Prerequisite(s): COST*1820, MCS*1820
Equate(s): COST*1820, MCS*1820
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*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): (MCS*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*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 course 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.

SOAN courses will be used towards the Sociology specializations.

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 if seminar courses are available.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC*1100</td>
<td>Sociology S,F,W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>SOC*1500</td>
<td>Crime and Criminal Justice F,W (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SOC*2010</td>
<td>Canadian Society U (3-0) [0.50]</td>
<td>A description of the structure of Canadian society with its social, political and economic tensions.</td>
<td></td>
</tr>
<tr>
<td>SOC*2070</td>
<td>Social Deviance S,F,W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>SOC*2080</td>
<td>Rural Sociology W (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SOC*2280</td>
<td>Society and Environment U (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SOC*2390</td>
<td>Class and Stratification U (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SOC*2700</td>
<td>Criminological Theory F,W (3-0) [0.50]</td>
<td>This course will examine the development of criminological theory from the late 1700s to contemporary times.</td>
<td></td>
</tr>
<tr>
<td>SOC*2760</td>
<td>Homicide S,F,W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>SOC*3110</td>
<td>Comparative Religious Systems W (3-0) [0.50]</td>
<td>An analysis of stability and change in patterns of religious beliefs, behaviour and institutions. (Offered in odd-numbered years.)</td>
<td></td>
</tr>
<tr>
<td>SOC*3130</td>
<td>Politics and Society U (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SOC*3310</td>
<td>Contemporary Theory F (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SOC*3330</td>
<td>Education, Change and Resistance U (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SOC*3380</td>
<td>Society and Nature U (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SOC*3410</td>
<td>Individual and Society U (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>SOC*3490</td>
<td>Law and Society S,W (3-0) [0.50]</td>
<td>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.)</td>
<td></td>
</tr>
<tr>
<td>SOC*3710</td>
<td>Young Offenders F,W (3-0) [0.50]</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
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 placement 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 the 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.

SOC*4010 Violence and Society 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), ( SOAN*3120 or POLS*3650)
Restriction(s): Restricted to students in BAH-CIPP 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]
An in-depth study of selected issues in criminology.
Prerequisite(s): (2 of SOC*3490, SOC*3570, SOC*3730, SOC*3740, SOC*3750), (1 of ANTH*3690, SOC*2700, SOC*3310), (SOAN*3120 or POLS*3650)
Restriction(s): Registration in Criminal Justice & Public Policy (major, minor or area of concentration).

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), (SOC*3120 or POLS*3650)
Restriction(s): Restricted to students in BAH-CIPP with an average of 70% in all course attempts in Political Science, Sociology and Sociology and Anthropology courses

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 provides 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): 15.00 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 (1 of ANTH*2160, SOAN*2112, SOC*2700), (SOAN*2120 or WMST*3000)

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 (ANTH*2160 or SOAN*2112), SOC*2080, SOAN*2120

SOC*4430 Alternative Social Possibilities 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 how 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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Restriction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC*4700</td>
<td>Seminar: Theoretical Issues in Sociology U (3-0)</td>
<td>[0.50]</td>
<td>An examination of selected theoretical issues. 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.</td>
<td>12.50 credits including SOC<em>3310, SOAN</em>3070, SOAN*3120</td>
<td></td>
</tr>
<tr>
<td>SOC*4740</td>
<td>Seminar in Sociology F,W (3-0) [0.50]</td>
<td></td>
<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.</td>
<td>12.50 credits including SOC<em>3310, SOAN</em>3070, SOAN*3120</td>
<td></td>
</tr>
<tr>
<td>SOC*4840</td>
<td>Seminar in Sociology F,W (3-0) [0.50]</td>
<td></td>
<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.</td>
<td>12.50 credits including SOC<em>3310, SOAN</em>3070, SOAN*3120</td>
<td></td>
</tr>
<tr>
<td>SOC*4880</td>
<td>Special Projects in Sociology S,F,W (3-0) [0.50]</td>
<td></td>
<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.</td>
<td>12.50 credits</td>
<td>Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.</td>
</tr>
<tr>
<td>SOC*4890</td>
<td>Special Projects in Sociology S,F,W (3-0) [0.50]</td>
<td></td>
<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.</td>
<td>12.50 credits</td>
<td>Instructor consent required. Please note, a student is allowed a total of 1.00 credits only for reading courses.</td>
</tr>
<tr>
<td>SOC*4900</td>
<td>Honours Sociology Thesis I S,F,W (3-0) [0.50]</td>
<td></td>
<td>Development and design of an honours thesis proposal conducted under the supervision of a faculty member. Recommended to Honours students.</td>
<td>15.00 credits including SOC<em>3310, SOAN</em>3070, SOAN<em>3120, CJPP students must have 15.00 credits including SOC</em>2700, SOAN<em>3120, or POLS</em>3650</td>
<td>A cumulative average of 70% in all Sociology and Anthropology courses. Instructor consent required</td>
</tr>
<tr>
<td>SOC*4910</td>
<td>Honours Sociology Thesis II S,F,W (3-0) [0.50]</td>
<td></td>
<td>Completion and presentation of honours thesis.</td>
<td>SOC*4900</td>
<td>Instructor consent required.</td>
</tr>
</tbody>
</table>
Sociology and 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*.

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 gender 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*3400 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, 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 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): 1 of ANTH*2160, IDEV*2010, IDEV*2500, SOC*2080

Restriction(s): (SOC*2112 or ANTH*2160), SOAN*2120, SOAN*2290

SOAN*4320 Transition from School to Work 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): 1 of ANTH*2160, IDEV*2010, IDEV*2500, SOC*2080

Restriction(s): (SOC*2112 or ANTH*2160), SOAN*2120, SOAN*2290

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
Soil Science

School of Environmental Sciences

SOIL*2010 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. This course is not for B.Sc.(Agr.) students. (Also offered through Distance Education format.)
Prerequisite(s): 1 of AGR*2301/2, AGR*2320, GEOG*1300, GEOL*1000, SOIL*2010

SOIL*2010 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.
Prerequisite(s): 1 of AGR*2301/2, AGR*2320, SOIL*2010

SOIL*3060 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.
Prerequisite(s): 1 of AGR*2301/2, AGR*2320, GEOG*1300, GEOL*1000, SOIL*2010

SOIL*3070 Environmental Soil Physics F (3-3) [0.50]
Practical aspects of water movement and contaminant transport in soils. Hands-on experience with standard laboratory and field methods of measuring soil physical properties. Applications of soil physics in characterizing pathogen and nutrient transport to groundwater, landfill cap and linear design, turf management.
Prerequisite(s): 1 of MATH*1080, AGR*301/2, AGR*2320, SOIL*2010

SOIL*3080 Soil and Water Conservation S,F (3-2) [0.50]
A lecture-demonstration course on 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. Reclamation of severely disturbed soils and saline-sodic soils. Emphasis will be on concepts and solutions to problems in a systems approach. (Also offered through Distance Education format.)
Prerequisite(s): 1 of AGR*2301/2, AGR*2320, SOIL*2010

SOIL*3200 Environmental Soil Biology W (3-3) [0.50]
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.
Prerequisite(s): 10.00 credits including 1 of AGR*2301/2, AGR*2320, SOIL*2010

SOIL*4090 Soil Management F (3-3) [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.
Prerequisite(s): 1 of AGR*2301/2, AGR*2320, SOIL*2010

SOIL*4130 Soil and Nutrient Management F (4-3) [0.50]
This course consists of the same lectures and seminars as 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.
Prerequisite(s): 1 of AGR*2301/2, AGR*2320, SOIL*2010
Restriction(s): ENVM*1070, SOIL*4090

SOIL*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 (micromorphology) 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.
Prerequisite(s): 12.50 credits including (1 of AGR*2320, GEOL*1050, GEOL*1100, SOIL*2010)
Restriction(s): SOIL*3170, SOIL*4170 Restricted to B.Sc.(Agr.) Agroecosystem Management or B.Sc.(Env.) Earth and Atmospheric Science majors or B.B.R.M. Instructor consent required.
Statistics

Department of Mathematics and Statistics

Suggested initial course sequences:

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 1 of STAT*2040 or STAT*2090 and only 1 of STAT*2070, 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*2040, 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 tests, 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 B.Sc. 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; inference 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): MATH*1210 or MATH*2080
Restriction(s): STAT*2040, STAT*2060, STAT*2080, STAT*2110

STAT*2250 Biostatistics and the Life Sciences W (3-2) [0.50]
This course in biostatistical methods will emphasize the design of research projects, data gathering, analysis and the interpretation of results. Statistical concepts underlying practical aspects of biological research will be acquired while working through the process of scientific enquiry. Computer laboratory sessions will focus on practical data visualization and statistical analysis using statistical software. Basic statistical methods are reviewed, followed by more advanced topics that will include some or all of the following: two-factor and multi-factor Analysis of Variance (ANOVA), simple and multiple linear regression, analysis of covariance, the general linear model, contingency table analysis and logistic regression. Concepts related to study design that will be discussed include sampling, confounding, paired designs, blocked designs, and factorial treatment designs. (Also listed as BIOL*2250.) Department of Mathematics and Statistics and Department of Integrative Biology.

Prerequisite(s): STAT*2040
Equate(s): BIOL*2250
Restriction(s): STAT*2050, STAT*2090

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): (MATH*1210 or 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): (MATH*1210 or 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-phase sampling and multi-stage cluster sampling. Expectation, variance estimation procedures and sample size calculations for the above techniques are included.

Prerequisite(s): (MATH*1210 or 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 MATH*1000, MATH*1080, MATH*1200), (1 of BIOL*2250, STAT*2050, STAT*2250)

### STAT*4050 Topics in Applied Statistics I F (3-0) [0.50]

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.)

**Prerequisite(s):** STAT*3110, STAT*3240

### STAT*4060 Topics in Applied Statistics II F (3-0) [0.50]

Same as for STAT*4050. (Offered in even-numbered years.)

**Prerequisite(s):** STAT*3110, STAT*3240

### STAT*4340 Statistical Inference W (3-0) [0.50]

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.

**Prerequisite(s):** STAT*3110, STAT*3240

### STAT*4350 Applied Multivariate Statistical Methods F (3-0) [0.50]

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.

**Prerequisite(s):** (MATH*2150 or MATH*2160), STAT*3110, STAT*3240

### STAT*4360 Applied Time Series Analysis W (3-2) [0.50]

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.

**Prerequisite(s):** STAT*3240 or instructor consent

### STAT*4600 Advanced Research Project in Statistics F,W (0-6) [1.00]

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.

**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 studio art. Through a combination of lectures, studio projects and guest speakers, students will explore conceptual, conceptual and topological 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 studio art. Through a combination of lectures, studio projects and guest speakers, students will explore conceptual, conceptual and topological 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*1060 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*1060 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*1060 can be taken as co-requisites.)

**SART*2460 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*1060 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*2490 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; (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*2540 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*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*3080 Extended Practices I F,W (0-6) [0.50]**

This course introduces contemporary studio concerns with emphasis on an interdisciplinary approach to art production. Students will be actively engaged in exploring a variety of skills, materials and ideas including video, audio, artist multiples, site work and concept art. These skill sets provide a solid base for upper level courses, where thematic projects encourage students to choose the most appropriate medium for their approach beyond a singular discipline or particular medium.

**Prerequisite(s):** ARTH*1220, ARTH*1520, SART*1050, SART*1060; (ARTH*1220 and SART*1060 can be taken as co-requisites.)

**SART*3090 Drawing II F,W (0-6) [0.50]**

An extension of SART*2090 which attempts to foster understanding of the basic skills and technical issues necessary to the making of drawings while introducing the philosophical and critical issues related to the discipline.

**Prerequisite(s):** ARTH*1220, ARTH*1520, SART*1050, SART*1060, SART*2090

**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*3200 Painting II F,W (0-6) [0.50]**

This course is an extension of the work begun in SART*2200. The various technical and aesthetic issues of representational painting will be further investigated as will the diverse approaches to pictorial organization derived from observation. However, the issues of abstraction and other forms of non-representational approaches will be introduced and developed in a deeper and fuller attempt to explore the possibilities available to the contemporary painter.

**Prerequisite(s):** ARTH*1220, ARTH*1520, SART*1050, SART*1060, SART*2200

**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*3300 Sculpture II F,W (0-6) [0.50]**

This is a technical course in which specific tools of the wood and metal shops will be studied in depth through assignments. Conceptual issues will be examined in relation to the creation of objects.

**Prerequisite(s):** ARTH*1220, ARTH*1520, SART*1050, SART*1060, 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*3410 Intaglio F (0-6) [0.50]**

This is an in-depth exploration into aspects of intaglio printmaking.

**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*3450 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*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*2610 Photography I F,W (0-6) [0.50]**

This course is an introduction to the creative application of photography in art, and the basic principles of traditional photo-chemical and digital photography.

**Prerequisite(s):** ARTH*1220, ARTH*1520, SART*1050, SART*1060; (ARTH*1220 and SART*1060 can be taken as co-requisites.)

**SART*2700 Introduction to Computer Graphics F (0-6) [0.50]**

This course extends the conceptual, technical, and aesthetic issues of studio art into the field of computer arts. Some computer experience is recommended.

**Prerequisite(s):** ARTH*1220, ARTH*1520, SART*1050, SART*1060; (ARTH*1220 and SART*1060 can be taken as co-requisites.)

**SART*2710 Drawing Graphics on the Computer W (0-6) [0.50]**

This course introduces digital drawing on the computer, translating traditional media into complex vector graphics. Some computer experience is recommended.

**Prerequisite(s):** ARTH*1220, ARTH*1520, SART*1050, SART*1060; (ARTH*1220 and SART*1060 can be taken as co-requisites.)

**XII. Course Descriptions, Studio Art**

2011-2012 Undergraduate Calendar

Last Revision: March 15, 2014
### XII. Course Descriptions, Studio Art

**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) [0.50]**

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*4670 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*4700 Photography III F,W (0-6) [0.50]
This course is a continued investigation into the formal, technical and theoretical issues of contemporary photography, with an emphasis on colour photography.
Prerequisite(s): SART*3600 or SART*3750
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*4720 Photography IV W (0-6) [1.00]
Through close consultation with the instructor, the student will continue advanced black and white, colour, mural printing, non-silver or digital photographic investigations towards producing an independent body of work. Opportunities for interdisciplinary approaches to photographic practice and the awareness of personal working methodologies will be encouraged.
Prerequisite(s): SART*4700
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*4750 Specialized Studio Practice I F (0-6) [1.50]
This course 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*4760 Specialized Studio Practice II W (0-6) [1.50]
This course is a continuation of SART*4750.
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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THST*3110</td>
<td>Acting II</td>
<td>0.50</td>
</tr>
<tr>
<td>THST*3120</td>
<td>Acting III</td>
<td>0.50</td>
</tr>
<tr>
<td>THST*3140</td>
<td>Special Studies in Production I</td>
<td>0.50</td>
</tr>
<tr>
<td>THST*3420</td>
<td>Special Studies in Production II</td>
<td>0.50</td>
</tr>
<tr>
<td>THST*3600</td>
<td>Directed Readings and Special Independent Studies</td>
<td>0.50</td>
</tr>
<tr>
<td>THST*3620</td>
<td>Special Studies Seminar</td>
<td>0.50</td>
</tr>
<tr>
<td>THST*3630</td>
<td>Special Studies in Studio Practice</td>
<td>0.50</td>
</tr>
<tr>
<td>THST*4090</td>
<td>Directing</td>
<td>0.50</td>
</tr>
<tr>
<td>THST*4250</td>
<td>Honours Project in Theatrical Production</td>
<td>0.50</td>
</tr>
<tr>
<td>THST*4650</td>
<td>Honours Essay</td>
<td>0.50</td>
</tr>
</tbody>
</table>

*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.

*The Theatre Studies program has a particular interest in the drama and theatre of Canada. Course offerings will reflect this concentration where appropriate.*

**XII. Course Descriptions, Theatre Studies**

**THST*2080 Acting I, F, W (2-3) [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*2500 Contemporary Cinema W (2-3) [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*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*3030 Theatre for Young Audiences U (2-2) [0.50]**

This is a studio course addressing selected topics dealing with theatrical practice for children and/or adolescents such as: creating theatre for young audiences; theatre as an instructional tool; teaching theatre to children; theatre games and play.

*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*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):* THST*2080

*Equate(s):* DRMA*2080

**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 (3-0) [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 (3-3) [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 (3-3) [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
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

Restriction(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*2120, (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*2100, DRMA*2300

Equate(s): DRMA*4300
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite(s)</th>
<th>Equate(s)</th>
<th>Restriction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>THST*3650</td>
<td>Dramatic Literature and Theory Seminar W (3-0)</td>
<td>[0.50]</td>
<td>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>
<td></td>
<td></td>
</tr>
<tr>
<td>THST*3660</td>
<td>Dramatic Literature and Theory Seminar W (3-0)</td>
<td>[0.50]</td>
<td>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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THST*3700</td>
<td>Fundamentals of Directing W (2-3)</td>
<td>[0.50]</td>
<td>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>
<td></td>
</tr>
<tr>
<td>THST*3850</td>
<td>Canadian Drama and Theatre F (3-0)</td>
<td>[0.50]</td>
<td>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>
<td>Restriction(s): DRMA*3331/2</td>
</tr>
<tr>
<td>THST*3950</td>
<td>Drama in London U (2-4)</td>
<td>[0.50]</td>
<td>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>
<td></td>
<td>DRMA*3950</td>
<td>Restriction(s): Permission of the Co-ordinator of the London Semester.</td>
</tr>
<tr>
<td>THST*4090</td>
<td>Directing F (3-2)</td>
<td>[0.50]</td>
<td>The application of the fundamentals of directing through a specific directorial assignment. Admission is by application to the School.</td>
<td>THST*3700</td>
<td>DRMA*4090</td>
<td>Restriction(s): Instructor consent required.</td>
</tr>
<tr>
<td>THST*4250</td>
<td>Honours Project in Theatrical Production F,W</td>
<td>[0.50]</td>
<td>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 by application to the School.</td>
<td>DRMA*4250</td>
<td>Restriction(s): Consent of both the instructor and the School are required.</td>
</tr>
<tr>
<td>THST*4280</td>
<td>Ensemble Project W (6-9)</td>
<td>[1.50]</td>
<td>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), Restricted to majors in Theatre Studies who have completed a minimum of 14.00 credits.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THST*4320</td>
<td>Seminar in Dramatic Literature and Theory F</td>
<td>[0.50]</td>
<td>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>
<td></td>
</tr>
<tr>
<td>THST*4330</td>
<td>Seminar in Canadian Drama and Theatre W</td>
<td>[0.50]</td>
<td>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>
<td></td>
</tr>
<tr>
<td>THST*4340</td>
<td>Playwriting F</td>
<td>[0.50]</td>
<td>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>
<td></td>
</tr>
<tr>
<td>THST*4650</td>
<td>Honours Essay U</td>
<td>[0.50]</td>
<td>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>
<td>Restriction(s): Instructor consent required.</td>
</tr>
</tbody>
</table>
XII. Course Descriptions, Toxicology

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 or CHEM*2300, (MATH*1080 or equivalent), CHEM*3360, CHEM*2480, BIOC*2580, TOX*2000 (TOX*2000 may be taken concurrently)

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 (0-4) [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.

Prerequisite(s): TOX*2000, TOX*3300
Restriction(s): Registration in B.Sc. Honours Toxicology students in their 7th or 8th semester. Departments of Biomedical Sciences and School of Environmental Sciences.

TOX*4550 Toxicological Risk Characterization W (3-0) [0.50]
This is a biologically based, advanced course that will give students working knowledge of current processes and techniques for toxicological risk characterization. The course material will cover the topics of problem definition, effect characterization, exposure characterization, risk assessment, and risk management decision making. (Also listed as ENVB*4550.)

Prerequisite(s): TOX*2000, ENVB*3030
Equate(s): ENVB*4550

TOX*4910 Toxicology Research Project II 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.

TOX*4910 Toxicology Research Project II S,F,W (0-9) [1.00]
This course involves a research project in toxicology. 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*4900
Restriction(s): Normally a minimum cumulative average of 70% is required. Instructor consent required.
XII. Course Descriptions, 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 immunophrophaxis, 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 recognising 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.

Prerequisite(s): All Phase 1 courses.
Co-requisite(s): All Phase 2 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.

Prerequisite(s): All Phase 1 courses.
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.

Prerequisite(s): All Phase 1 courses.
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.

Prerequisite(s): All Phase 1 courses.
Co-requisite(s): All Phase 2 courses.

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
XII. Course Descriptions, Veterinary Medicine

VETM*3470 Anaesthesiology and Pharmacology P2 (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.

Prerequisite(s): All Phase 1 courses.
Restriction(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.
Restriction(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 interpersonal and interprofessional relationships and 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.
Restriction(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.
Restriction(s): Registration in the D.V.M. Program

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*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 pathobiology 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*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 assess 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 rounds 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*4610 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
Restriction(s): Registration in the D.V.M. Program.

VETM*4620 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
Restriction(s): Registration in the D.V.M. Program.
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. 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 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*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.
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*2100 Developmental Biology F,W (3-3) [0.50]  
This course provides an introduction to animal development through the study of reproduction, early embryology, histogenesis, organogenesis, and morphogenesis. The roles of determination, differentiation, growth, morphogenesis, and pattern formation will be emphasized.  
Prerequisite(s): 4.00 credits including (BIOL*1040 or BIOL*1070, BIOL*1090)  

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 W (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*3100, BIOM*3100, BIOM*3200, HK*3940, HK*3401/2, ZOO*2090, ZOO*3200, ZOO*3210  

ZOO*3200 Comparative Animal Physiology I F (3-3) [0.50]  
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*3100, BIOM*3110 and HK*3940 are available to cover similar material without labs.  
Prerequisite(s): BIOC*2580  

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 respiratory, cardiovascular, osmoregulatory and digestive physiology. This course involves exercises that use animals. BIOM*3100, BIOM*3110, 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): STAT*2040, (BIOL*3400, ZOO*3300)  

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*3200, ZOO*3210  

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, (IBIO*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 significance of environmental influences on life styles, behavioral patterns, physiological responses, population biology and community structure. The use of niche, habitat and ecotone concepts in defining the role of fishes in representative types of aquatic ecosystems will be examined.  
Prerequisite(s): (IBIO*4220 or ZOO*4930), STAT*2040  

ZOO*4540 Marine and Freshwater Research E,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, BIOL*2580, PHYHS*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 F (3-3) [0.50]  
Advanced consideration of physical and biogeochemical processes in the world's oceans. Examination of the critical dependence of biological processes on physical and chemical processes from micro- to macro-scales. The processes involved in: production and energy transfer within pelagic food webs; export of energy to the benthos; the structure and dynamics of marine communities.  
Prerequisite(s): BIOL*3450, PHYHS*1080  

ZOO*4910 Integrative Vertebrate Biology F (3-3) [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.  
Prerequisite(s): ZOO*2090, ZOO*2100  
Co-requisite(s): (ZOO*3200 or ZOO*3210), (BIOL*3400 or ZOO*3300)  
Equate(s): IBIO*4200  

ZOO*4920 Lab Studies in Ornithology F (0-3) [0.25]  
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.  
Prerequisite(s): ZOO*2090, ZOO*2100  
Co-requisite(s): (ZOO*3200 or ZOO*3210), (IBIO*4200 or ZOO*4910), (BIOL*3400 or ZOO*3300)  
Equate(s): IBIO*4210  
Restriction(s): ZOO*4090
**ZOO*4930 Lab Studies in Ichthyology F (0-3) [0.25]**

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.

- **Prerequisite(s):** ZOO*2090, ZOO*2100
- **Co-requisite(s):** (ZOO*3200 or ZOO*3210), (IBIO*4200 or ZOO*4910), (BIOL*3400 or ZOO*3300)
- **Equate(s):** IBIO*4220
- **Restriction(s):** ZOO*4020

**ZOO*4940 Lab Studies in Herpetology W (0-3) [0.25]**

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*2090, ZOO*2100
- **Co-requisite(s):** (ZOO*3200 or ZOO*3210), (IBIO*4200 or ZOO*4910), (BIOL*3400 or ZOO*3300)
- **Equate(s):** IBIO*4230
- **Restriction(s):** ZOO*4430

**ZOO*4950 Lab Studies in Mammalogy W (0-3) [0.25]**

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*2090, ZOO*2100
- **Co-requisite(s):** (ZOO*3200 or ZOO*3210), (IBIO*4200 or ZOO*4910), (BIOL*3400 or ZOO*3300)
- **Equate(s):** IBIO*4240
- **Restriction(s):** ZOO*4280
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 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 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 http://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 are parents, when unforeseen 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 financial assistance. Written applications are open to faculty, staff and students of the University of Guelph and to the Guelph community. Subsidy is available for families that qualify for financial assistance. Written applications are open to faculty, staff and students of the University of Guelph and to the Guelph community.

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 involved in several ways, including membership on the Parent Advisory Council, attending parent information meetings, observing their children at play by using the specially designed observation any facilities, or by visiting their child at any point during the day. Spaces are open to faculty, staff and students of the University of Guelph and to the Guelph community. Subsidy is available for families that qualify for financial assistance. Written enquiries may be directed to: Rachelle Campbell, Interim Director, Child Care Services, University of Guelph, Guelph, Ontario, N1G 2W1, 519-824-4120 extension 52682 or email cclc@uoguelph.ca. For more information please visit: http://www.uoguelph.ca/studentaffairs/childcare/home/.

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.

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-minded 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/.

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 lists need, talk to us. That's part of our service. To check your course lists online, visit our web site at 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, podiast, chiropactor, 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/bhp 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/

"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/.

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, information can be found at 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

Lakehead University

Thunder Bay ON P7B 5E1
(807)343-8520
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

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

Queen's University

Faculty of Education
Duncan McArthur Hall
Kingston ON K7L 3N6
(613)533-6210
Fax: (613)-533-6584
http://educ.queensu.ca

The Ontario Institute for Studies In Education/University of Toronto

252 Bloor Street West
Toronto, ON M5S 1V6
(416)923-6641
Fax: (416)926-4725
http://www.oise.utoronto.ca

Trent University

(Or-oporatory Concurrent Teacher Education Program with Queen's University)
Otonabee College
Peterborough, ON K9J 7B8
(705)748-1464
Fax: (705)748-1625
http://www.trentu.ca

University of Ontario Institute of Technology

2000 Simcoe Street North
Oshawa, ON L1H 7K4
(905) 271-3181
http://www.oit.ca

University of Ottawa

Faculty of Education
145 Jean-Jacques Lussie
Ottawa ON K1N 6N5
(613)-562-5804 ext.4057
http://www.uottawa.ca

University of Western Ontario

Faculty of Education
1137 Western Road
London ON N6G 1G7
(519)661-3833
Fax: (519)661-3800
http://www.uwo.ca

University of Windsor

Faculty of Education
401 Sunset
Windsor ON N9B 3P4
(519)253-4232 ext.3800
http://www.uwindsor.ca

Wilfrid Laurier University

Faculty of Education
75 University Ave. W.
Waterloo ON N2L 3C5
(519) 884-0710
Fax: (519) 884-8826
http://www.wlu.ca/education
York University
Faculty of Education
4700 Keele Street
Toronto ON M3J 1P3
(416)736-5002
Fax: (416)736-5613
http://www.edu.yorku.ca

International 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 Invention Policy, a student who is an inventor or co-inventor would share in any revenues earned by the invention.

Library and Learning Commons

Collection

The University’s collection of books, journals, documents, maps, microforms, films, video and audio materials is administered in the McLaughlin Library building, located in the centre of the campus, and in a branch in the Ontario Veterinary College. The collection consists of more than 2.1 million equivalent volumes and is increasing at the rate of 50-60,000 per year. The majority of our collection of approximately 14,000 journal titles is available electronically. In addition, the Library has over 12,000 audio-visual holdings and over 70,000 maps. Access to these materials and the collections the University of Waterloo and Wilfrid Laurier University is available through the TRELLIS system.

Services

The Learning Commons, located on the first floor of the McLaughlin Library, brings together in one location services that enhance learning, writing, research, numeracy, data and technology at the University of Guelph.

IT Help Desk provides assistance to students, faculty and staff with IT related questions or problems.

Learning Services provides support to undergraduate and graduate students and faculty concerned with enhancing student learning and academic performance. Services include workshops, print and online resources, and individual assistance, as well as specialized services for faculty.

Library Centre for Students with Disabilities (LCSD) offers a range of services and adaptive software that enable students with disabilities to access Library as well as other information resources.

Library Research Help Desk and the Information Literacy work team assist students, staff and faculty in developing their information literacy skills in locating, evaluating, and effectively managing the information they need for their assignments and research.

Supported Learning Group Program (SLG) uses peer-led study session to enrich the learning experience of students enrolled in historically challenging courses including first year History, Computer Science, Economics, Mathematics, and Psychology among others.

Writing and ESL Services provide support to undergraduate and graduate students who wish to enhance their writing skills, as well as for those who are having difficulty writing critically and analytically, or whose first language is not English. Services include a range of programs, workshops, presentations, printed and on-line resources, and individual assistance.

For more information about the Learning Commons visit their web site at http://www.learningcommons.uoguelph.ca.

The McLaughlin Library provides wireless internet access and has 125 laptops available for short-term loan, in addition to its 300 public workstations. Both individual and group study facilities are provided. Presentation of the non-transferable University Card is required each time a book is borrowed from the Library. This card also provides University of Guelph users borrowing privileges at most other Ontario university libraries.

The Library also features photocopiers, scanners and a Williams Coffee Pub for snacks and treats. The Library: Your Academic Town Square: http://www.lib.uoguelph.ca.

Regulations and Hours

For more information about library privileges, services, regulations and hours http://www.lib.uoguelph.ca.

OPIRG-Guelph

OPIRG-Guelph (Ontario Public Interest Research Group - Guelph) is a part of a provincial network of "PIRGs" that engage in research, education, and action on a variety of environmental and social justice issues. We often act as a bridge between the campus and community. Recent projects include a permaculture garden on campus, creation of an annual Environment Week pull-out in the Guelph Tribune. We continually host events and workshops on a range of topics. Working groups of OPIRG raise awareness of such issues as political prisoners worldwide, sustainable food growing practices, and unfair international labour practices.

OPIRG-Guelph maintains an alternative library with books, documents, periodicals, videos and DVDs that students and OPIRG members can access. The Research for Credit program allows students to apply their course work to community projects. Volunteer opportunities include being involved with or starting working groups, helping in the library or office, and sitting on the board of directors. Core funding (supplemented by grants and donations) is provided per semester through full-time graduate and undergraduate student fees. The fee is refundable in the first three weeks if requested. OPIRG (ext. 52129 or 824-2091) is located at 1 Trent Lane. OPIRG-Guelph can be reached by email at oiprig@uoguelph.ca.

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-enrolment 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 educational 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 and 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 gymnasiums, 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 (163' 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 adviser, 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”. http://www.cecs.uoguelph.ca/home/

The CECS job posting website, Recruit Guelph www.recruitguelph.ca provides online job postings including full-time, part-time, summer and internships. Job & Career Fairs and employer networking events also provide exposure to the world of work. COOP*1000, a mandatory non-credit course that will prepare you for your work experience. Co-operative Education is a program that formally integrates a student’s academic studies with work experience with participating employers. The University of Guelph Co-operative Education program is accredited by the Canadian Association for Co-operative Education (CAFCE).

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 ($14.00 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

Entertainment and Activities: movies, speakers, concerts, student academic appeals, orientation, faxing, photocopying, 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 cssalt@uoguelph.ca and the website is located at: http://www.cssa.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 - cssacad@uoguelph.ca - x56742
External Commissioner - csaext@uoguelph.ca - x58328
Local Affairs Commissioner - csalocal@uoguelph.ca - x54407
Finance and Human Resources Commissioner - cssadmin@uoguelph.ca - x54408
Communications Commissioner - cssalt@uoguelph.ca - x56376

Last Revision: March 15, 2014 2011-2012 Undergraduate Calendar
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, psychiatrists, 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 a Residence Life Staff comprised of students. They are there to meet you in September, introduce you to others in the building, and act as resource people throughout the year.

Residence living is convenient. A full range of services is provided to residence students. Each room comes completely furnished and includes a telephone with voicemail and high speed internet access. The residences 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 accommodations 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 from those for 50 people, to a unique residence complex which houses almost 1,800 students.

The University of Guelph has several unique 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 students with families is available in apartment and townhouse units located on two sites near the west end of the 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. 5255).

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

Student Life
Student Life promotes learning that has a lasting and transformative impact on students and society. This department offers a comprehensive package of programs and services that help students make a successful transition to, through and from university life and study. Curricular and co-curricular initiatives, advising and support activities are set out to serve as vehicles through which students can explore their leadership capacity, make long lasting connections, and optimize opportunities to learn through experience. Programs also help to develop a sense of civic/community responsibility, and promote engagement in the campus and community life of the University.

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. Programs and services include: advising and support; cultural and traditional workshops; research support; bursary and scholarship information; and activities to help with the transition to university life and study.

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, Orientation Week and Momentum; 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, 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 racialized backgrounds in their transition to university life and study.

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 information and assistance relating to sexual orientation and gender identity. Programs include a telephone support line, a website where questions can be asked anonymously, and workshops.

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 can apply to all students who are engaged in University-sanctioned activities, and may apply to off-campus conduct, so long as the violation in question materially affects the safety, integrity and/or educational interests of the University community.

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.

XIV. General Information, Student Rights and Responsibilities

628

2011-2012 Undergraduate Calendar

Last Revision: March 15, 2014
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 affirms the dignity, worth and autonomy of the individual.
• A focus on learning and knowledge, which upholds the fundamental importance of reasoned debate and inquiry in all of this University's academic and service functions.
• Societal enhancement, which extends the commitment to individual development beyond the walls of the institution to the ideal of service to the broader community.

Academic 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. Offenses 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, false, 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. Consumption or open 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. Firearms, which include but is not limited to BB guns, paintball guns, any other weapons, firecrackers, gunpowder or any other forms of unauthorized hazardous materials are prohibited on campus.

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 a 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 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.

Students With Disabilities (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 also liaise with faculty to ensure that the proper classroom and exam accommodations are available to the student. A learning disabilities specialist 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.

University Bookstore

The University Bookstore located in the MacNaughton Building, stocks every text book required for all your courses. To help you save money, the University Bookstore also carries the largest selection of used text books on campus. Students can find everything they need for school right here! It’s your on campus “one-stop shop” for text books, additional reading material and school supplies. In addition the University Bookstore is the only place you can buy official University clothing and giftware. For additional information, please visit the University Bookstore website at: http://bookstore.uoguelph.ca/

Pages Coffeehouse located on the second floor of the University Bookstore, features a full service Tim Hortons. Students can relax in the comfortable surroundings and enjoy the full line of Tim Hortons products including hot and cold beverages, baked goods, sandwiches, soups and chili. Pages is open Monday through Friday.

University Centre

The University Centre exists both as a service and community centre. The University Centre is governed by a Board composed of representatives from the University Centre user groups, including undergraduate and graduate students, faculty, administration, staff and alumni. This group of people, appointed on a two-year basis, is charged with the responsibility of ensuring the University Centre’s goals are met through policy and planning. Within the Centre, numerous administrative departments, commercial services, student organizations and programming facilities exist for the convenience and enjoyment of all members of the University Community. A wide variety of shops and services are located on the first floor of the University Centre surrounding an open courtyard.

University Centre Food Court opens early and closes late, offering a wide array of specialty shops including Nature's Best Vegetarian, Made in Japan and the Wokathon. Enhancing the variety are several popular brands such as Subway, Made in Japan, Tim Hortons, Williams Coffee Pub, Taco Bell, KFC and the Pita Pit.

Earthworks and the full service on-campus Post office are located in the University Centre beside the Food Court.

Earthworks offers natural and organic foods including prepared sandwiches and salads, hot soup, whole fruits, bottle beverages and coffee and teas. Earthworks also carries greeting cards, office supplies, phone cards, snack items, seasonal and U of G giftware.

The Daily Grind is a casual coffeehouse serving Starbucks and fairly traded coffees, Booster Juice, toasted sandwiches, gourmet pizza, and delicious baked goods plus an extensive selection of grab'n go sandwiches and salads. This is a great place to meet with friends, study, read or watch your favourite TV shows.

The Brass Taps (level 2), with its relaxed atmosphere and excellent weekly entertainment line-up (never a cover!), is a favourite campus meeting spot. The Taps kitchen offers a wide range of daily specials and a menu geared to the many diverse appetites found on campus. Meal Plans accepted.

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 Ontario (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.

630 2011-2012 Undergraduate Calendar

XIV. General Information, Students With Disabilities (CSD)

Last Revision: March 15, 2014
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, 2010 Enrolment Statistics and Systems, Office of Registrarial Services

**Undergraduate Programs (UG) - 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>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Diploma Programs</td>
<td>9</td>
<td>16</td>
<td>23</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>50</td>
</tr>
<tr>
<td>B.A.</td>
<td>1,479</td>
<td>141</td>
<td>1,280</td>
<td>319</td>
<td>1,066</td>
<td>411</td>
<td>719</td>
<td>296</td>
<td>5,711</td>
</tr>
<tr>
<td>B.A.Sc.</td>
<td>161</td>
<td>10</td>
<td>187</td>
<td>17</td>
<td>203</td>
<td>40</td>
<td>157</td>
<td>52</td>
<td>827</td>
</tr>
<tr>
<td>B.A.S.</td>
<td>135</td>
<td>6</td>
<td>88</td>
<td>13</td>
<td>64</td>
<td>15</td>
<td>47</td>
<td>23</td>
<td>391</td>
</tr>
<tr>
<td>B.B.R.M.</td>
<td>37</td>
<td>1</td>
<td>39</td>
<td>2</td>
<td>33</td>
<td>1</td>
<td>17</td>
<td>5</td>
<td>135</td>
</tr>
<tr>
<td>B.Comm.</td>
<td>733</td>
<td>63</td>
<td>611</td>
<td>139</td>
<td>502</td>
<td>189</td>
<td>448</td>
<td>139</td>
<td>2,824</td>
</tr>
<tr>
<td>B.Comp.</td>
<td>76</td>
<td>9</td>
<td>47</td>
<td>10</td>
<td>26</td>
<td>17</td>
<td>12</td>
<td>9</td>
<td>206</td>
</tr>
<tr>
<td>B.Eng.</td>
<td>308</td>
<td>18</td>
<td>162</td>
<td>95</td>
<td>82</td>
<td>50</td>
<td>59</td>
<td>41</td>
<td>815</td>
</tr>
<tr>
<td>B.L.A.</td>
<td>43</td>
<td>3</td>
<td>41</td>
<td>6</td>
<td>48</td>
<td>18</td>
<td>36</td>
<td>10</td>
<td>205</td>
</tr>
<tr>
<td>B.Sc.</td>
<td>1,303</td>
<td>91</td>
<td>1,162</td>
<td>186</td>
<td>1,006</td>
<td>374</td>
<td>708</td>
<td>384</td>
<td>5,214</td>
</tr>
<tr>
<td>B.Sc. (Agr.)</td>
<td>63</td>
<td>4</td>
<td>52</td>
<td>7</td>
<td>63</td>
<td>19</td>
<td>45</td>
<td>30</td>
<td>283</td>
</tr>
<tr>
<td>B.Sc. (Env.)</td>
<td>109</td>
<td>5</td>
<td>81</td>
<td>18</td>
<td>70</td>
<td>24</td>
<td>44</td>
<td>32</td>
<td>383</td>
</tr>
<tr>
<td>B.Sc. (Tech.)</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>13</td>
</tr>
<tr>
<td>D.V.M.</td>
<td>116</td>
<td>0</td>
<td>111</td>
<td>1</td>
<td>110</td>
<td>0</td>
<td>108</td>
<td>0</td>
<td>446</td>
</tr>
<tr>
<td>General Studies</td>
<td>5</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>Honours Equivalency</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>11</td>
<td>13</td>
</tr>
<tr>
<td>Non-Degree</td>
<td>22</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>25</td>
<td>54</td>
</tr>
<tr>
<td>Non-Diploma</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**UG Full-time Enrolment**

17,580

**Undergraduate Programs (UG) - Part-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>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Diploma Programs</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>B.A.</td>
<td>52</td>
<td>77</td>
<td>64</td>
<td>104</td>
<td>93</td>
<td>204</td>
<td>59</td>
<td>206</td>
<td>859</td>
</tr>
<tr>
<td>B.A.Sc.</td>
<td>1</td>
<td>2</td>
<td>8</td>
<td>5</td>
<td>6</td>
<td>9</td>
<td>11</td>
<td>31</td>
<td>73</td>
</tr>
<tr>
<td>B.A.S.</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td>9</td>
<td>22</td>
</tr>
<tr>
<td>B.B.R.M.</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>B.Comm.</td>
<td>18</td>
<td>24</td>
<td>19</td>
<td>46</td>
<td>24</td>
<td>14</td>
<td>17</td>
<td>85</td>
<td>247</td>
</tr>
<tr>
<td>B.Comp.</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>9</td>
<td>2</td>
<td>2</td>
<td>27</td>
</tr>
<tr>
<td>B.Eng.</td>
<td>7</td>
<td>4</td>
<td>7</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>13</td>
<td>12</td>
<td>48</td>
</tr>
<tr>
<td>B.L.A.</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>B.Sc.</td>
<td>17</td>
<td>32</td>
<td>33</td>
<td>33</td>
<td>32</td>
<td>45</td>
<td>29</td>
<td>120</td>
<td>341</td>
</tr>
<tr>
<td>B.Sc. (Agr.)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>6</td>
<td>10</td>
<td>23</td>
</tr>
<tr>
<td>B.Sc. (Env.)</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>6</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>10</td>
<td>22</td>
</tr>
<tr>
<td>B.Sc. (Tech.)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>D.V.M.</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>General Studies</td>
<td>25</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>Honours Equivalency</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>13</td>
<td>17</td>
</tr>
<tr>
<td>Non-Degree</td>
<td>46</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>3</td>
<td>38</td>
<td>94</td>
</tr>
<tr>
<td>Non-Diploma</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

**UG Part-time Enrolment**

1,820

**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>
</tr>
</thead>
<tbody>
<tr>
<td>BAAG</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>BAC</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>BAMS</td>
<td>187</td>
<td>12</td>
<td>173</td>
<td>10</td>
<td>147</td>
<td>9</td>
<td>83</td>
<td>10</td>
<td>631</td>
</tr>
<tr>
<td>BASC</td>
<td>397</td>
<td>29</td>
<td>340</td>
<td>101</td>
<td>307</td>
<td>46</td>
<td>184</td>
<td>45</td>
<td>1,449</td>
</tr>
<tr>
<td>BBA</td>
<td>228</td>
<td>9</td>
<td>214</td>
<td>35</td>
<td>220</td>
<td>52</td>
<td>204</td>
<td>43</td>
<td>1,005</td>
</tr>
<tr>
<td>ND</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

**UGH Full-time Enrolment**

3,103
### Guelph-Humber Undergraduate Programs (UGH) - Part-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>
</tr>
</thead>
<tbody>
<tr>
<td>BAAG</td>
<td>2</td>
<td>0</td>
<td>16</td>
<td>64</td>
<td>40</td>
<td>11</td>
<td>0</td>
<td>0</td>
<td>133</td>
</tr>
<tr>
<td>BAC</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>BAMS</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>6</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>21</td>
</tr>
<tr>
<td>BASC</td>
<td>12</td>
<td>2</td>
<td>6</td>
<td>9</td>
<td>43</td>
<td>18</td>
<td>9</td>
<td>32</td>
<td>131</td>
</tr>
<tr>
<td>BBA</td>
<td>5</td>
<td>7</td>
<td>15</td>
<td>11</td>
<td>9</td>
<td>12</td>
<td>14</td>
<td>30</td>
<td>103</td>
</tr>
<tr>
<td>Non-Degree</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>12</td>
</tr>
</tbody>
</table>

#### UGH Part-Time Enrolment

<table>
<thead>
<tr>
<th>Program</th>
<th>Full-time</th>
<th>Part-time</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAAG</td>
<td>133</td>
<td>0</td>
<td>133</td>
</tr>
<tr>
<td>BASC</td>
<td>131</td>
<td>1</td>
<td>132</td>
</tr>
<tr>
<td>BBA</td>
<td>103</td>
<td>3</td>
<td>106</td>
</tr>
<tr>
<td>Non-Degree</td>
<td>12</td>
<td>30</td>
<td>42</td>
</tr>
</tbody>
</table>

#### Graduate Programs (GR) Enrolment

<table>
<thead>
<tr>
<th>Program</th>
<th>Full-time</th>
<th>Part-time</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.V.Sc.</td>
<td>50</td>
<td>4</td>
<td>54</td>
</tr>
<tr>
<td>Graduate Diploma in Veterinary Medicine</td>
<td>8</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>M.A.</td>
<td>356</td>
<td>5</td>
<td>361</td>
</tr>
<tr>
<td>M.A.N.</td>
<td>9</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>M.A.SC.</td>
<td>78</td>
<td>19</td>
<td>97</td>
</tr>
<tr>
<td>M.B.A.</td>
<td>66</td>
<td>0</td>
<td>66</td>
</tr>
<tr>
<td>M.BNF.</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>M.B.S.</td>
<td>15</td>
<td>0</td>
<td>15</td>
</tr>
<tr>
<td>M.C.S</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>M.ENG.</td>
<td>18</td>
<td>6</td>
<td>24</td>
</tr>
<tr>
<td>M.F.A.</td>
<td>41</td>
<td>0</td>
<td>41</td>
</tr>
<tr>
<td>M.LA.</td>
<td>49</td>
<td>1</td>
<td>50</td>
</tr>
<tr>
<td>M.PH.</td>
<td>36</td>
<td>4</td>
<td>40</td>
</tr>
<tr>
<td>M.PL.A.</td>
<td>4</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>M.SC.</td>
<td>776</td>
<td>87</td>
<td>863</td>
</tr>
<tr>
<td>M.SC. (AQUA.)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>M.SPL.</td>
<td>40</td>
<td>15</td>
<td>55</td>
</tr>
<tr>
<td>PH.D.</td>
<td>736</td>
<td>81</td>
<td>817</td>
</tr>
<tr>
<td>Non-Degree</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Total GR Enrolment

<table>
<thead>
<tr>
<th>Program</th>
<th>Full-time</th>
<th>Part-time</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2,287</td>
<td>228</td>
<td>2,515</td>
</tr>
</tbody>
</table>

#### Total University Enrolment

<table>
<thead>
<tr>
<th>Type of Enrolment</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG Full-time Enrolment</td>
<td>17,580</td>
</tr>
<tr>
<td>UG Part-time Enrolment</td>
<td>1,820</td>
</tr>
<tr>
<td>Total UG Enrolment</td>
<td>19,400</td>
</tr>
<tr>
<td>UGH Full-time Enrolment</td>
<td>3,103</td>
</tr>
<tr>
<td>UGH Part-time Enrolment</td>
<td>400</td>
</tr>
<tr>
<td>Total UGH Enrolment</td>
<td>3,503</td>
</tr>
<tr>
<td>Total UNDERGRADUATE Enrolment (UG and UGH)</td>
<td>22,903</td>
</tr>
<tr>
<td>GR Full-time Enrolment</td>
<td>2,287</td>
</tr>
<tr>
<td>GR Part-time Enrolment</td>
<td>228</td>
</tr>
<tr>
<td>Total GR Enrolment</td>
<td>2,515</td>
</tr>
</tbody>
</table>

**TOTAL UNIVERSITY ENROLMENT**

<table>
<thead>
<tr>
<th>Program</th>
<th>25,418</th>
</tr>
</thead>
</table>

Last Revision: March 15, 2014
XVI. Administration and Faculty

Administration and Faculty

Chancellor Emeritus
Hon. L.M. Alexander, Chancellor Emeritus

The Board of Governors
P. Wallin, Chancellor
E.W. Siddall, Chair
K. Bardswick, Vice-Chair
T. Burt, Vice Chair
B.W. Barrington
G. Armstrong
G. Blais
M. Chambers
D. Freeborough, Vice-Chair
E. Gatsinos
K. Golding
G. Gray
M. Hassas Roudsari
P. Jarvis
K. Kuwahara
V. McLaughlin
B. Miller
G. Morton
K. Stevenson
A. Sullivan
A.J.S. Summerlee, President
Hon. L. Vanelief
T. Walker
C. Whitfield
V. Hodgkinson, Secretary

Honorary Fellows of the University
A.P. Auger, Guelph
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
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. Basrur, Toronto
G.D. Bedell, Camden, Maine, U.S.A.
M. Beverley Burton, Guelph
J.L. (Iain) Campbell, Guelph
H.G. Downie, Guelph
E.D. Horney, Guelph
T.J. Huland, Guelph
J.L. Hunt, Guelph
B.M. McCraw, Guelph
J.T. Powell, Guelph

John Bell Award
J. Christensen-Hughes, CME
J. Cun solo, 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. Paramskas, 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

Administrative Officers

Office of the President
A.J.S. Summerlee, President and Vice-Chancellor, B.SC., B.V.SC., PH.D. (BRISTOL), MRCVS
S. Bennett, Director University and Community Relations, B.A. (QU.)
M.M. Childs, Legal Counsel, B.SC. (ST. F.X. ANTIGONISH, N.S.), LLB (W.ONT.)

University Secretariat
V. Hodgkinson, University Secretary, B.A. (YORK, CAN.), M.A. (GUELPH)
K. Revington, Associate University Secretary, B.A. (QU.), M.ED. (BOSTON)
G. Gundy, Secretariat Officer & Information and Privacy Coordinator, B.A. (W. LAUR.), M.A. (GUELPH)

Office of the Provost and Vice-President (Academic)
M. Mancuso, Provost and Vice President (Academic), B.A. (MCM.), M.A. (CAR.), D.PHIL. (OXF.)
S. Desmarais, Associate Vice-President (Academic), B.A., M.A., PH.D. (WAT)
B. Whiteside, Associate Vice-President (Student Affairs), B.A., M.A. (GUELPH)
A. Clarke, Assistant Vice-President (Academic), B.SC., M.SC., PH.D. (WAT)
T. Alberico, Manager of Faculty Recruitment and Retention and Executive Assistant to the Provost, B.SC. (GUELPH), CHRP

S.G. Dorr, Coordinator of the Undergraduate Academic Information Centre, B.A., M.A. (GUELPH), M.S. (KANSAS ST.)
M. Ridley, Chief Information Officer, B.A. (GUELPH), M.A. (NEW BR.), M.L.S. (TOR.)
P. Tersigni, Coordinator of Undergraduate Curriculum, B.A., M.A. (GUELPH)
E. McFarland, Judicial Officer, B.A. (CALG.) (OTT.)

Office of Resource Planning and Analysis
B.D. Pettigrew, Assistant Vice-President (Institutional Research and Planning) and Registrar, B.A. (GUELPH), M.S.W. (W.LAUR.)
C.A. Beattie, Research Associate, B.SC. (GUELPH)
M. Kupperschmidt, Research Associate, B.A. (GUELPH)

Office of the Vice-President (Alumni Affairs and Development)
J. Shoveller, Vice-President (Alumni Affairs and Development), B.A. (W. LAUR.), M.B.A. (IVEY)

Office of the Vice-President (Finance and Administration)
N. Sullivan, Vice-President (Finance and Administration), B.A. (MCG.)
J. Miles, Assistant Vice-President (Finance and Services), B.A. (WAT.), C.M.A.
M. Harley, 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)
S. Liss, Associate Vice-President (Research Services), International Liaison Officer and Professor, B.SC. (W. ONT.), M.S.C., PH.D. (SASK.)
R. Moccia, Associate Vice-President (Research, Agri-Food and Partnerships) and Manager, Business and Client Services, B.S.C. (P.E.) (YORK, CAN.)
K.W. Mason, Manager, B. S.C. (GUELPH)
S. Mau, Manager, B.S.C. (GUELPH)
D. Easter, Manager, B.A. (QUEENS)
D. Cox, Manager, B.S.C. (GUELPH)
B. Clausen, Manager, B.S.C. (GUELPH)
S. Camp, Manager, B.S.C. (GUELPH)
F. Cain, Manager, B.S.C. (GUELPH)
D. Burton, Manager, B.S.C. (GUELPH)
B. Brown, Manager, B.S.C. (GUELPH)
T. Kendall, Manager, B.S.C. (GUELPH)
J. Moreton, Manager, B.S.C. (GUELPH)
J. Walsh, Manager, B.S.C. (GUELPH)
J. Sho veller, Manager, B.S.C. (GUELPH)
K. Elton, Manager, B.S.C. (GUELPH)
R. Butler, Manager, B.S.C. (GUELPH)
K. Bertrand, Manager, B.S.C. (GUELPH)
C. Bannon Waterman, Manager, B.S.C. (GUELPH)
A. Vannelli, Manager, B.S.C. (GUELPH)
A. Vowles, Manager, B.S.C. (GUELPH)
K. Hoeg, Manager, B.S.C. (GUELPH)
D. Blain, Manager, B.S.C. (GUELPH)
M. Ridley, Manager, B.S.C. (GUELPH)
J. Varamo, Manager, B.S.C. (GUELPH)
K. Walters, Manager, B.S.C. (GUELPH)
C. Wigston, Manager, B.S.C. (GUELPH)

XVI. Administration and Faculty, Administrative Departments

Colleges and Faculties

College of Arts
D. Bruce, Dean and Professor, B.A. (ALBERTA), M.A. (QU.), PH.D. (TOR.)

College of Biological Science
M. Emes, Dean, B.S.C., P.H.D. (SHEFFIELD)

College of Management and Economics
C.J. McKenna, Dean, B.S.C. (ST. ALF.), D.P.HIL. (YORK, U.K.)

College of Physical and Engineering Science
A. Vannelli, Dean, B.S.C., M.S.C. (CONCORDIA), PH.D. (WAT.), PENG.

College of Social and Applied Human Sciences
A.E. Joseph, Dean, B.A. (LIV.), M.A. (QU.), PH.D. (MCM.)

Ontario Agricultural College
R.J. Gordon, Dean and Professor, B.S.C., 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, Interim Dean of Graduate Studies and Assistant Vice-President (Academic), B.S.C., 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 (W.ONT.)

Administrative Departments

Alumni Affairs and Development
J. Sho veller, Vice President, (Alumni Affairs and Development), B.A. (W. LAUR.), M.B.A., (IVEY)
K. Hay, Associate Vice-President, (Advancement), B.A. (WAT.)
C. Bannon Waterman, Executive Director, Advancement Services, B.S.C.(ENG.) (GUELPH)
K. Bertrand, Executive Director, (Advancement), Social Sciences, Humanities & Students, B.A.H. (QUEENS)
R. Butler, Director, Gift Planning, B.A. (GUELPH), B.COMM. (WIND.)
K. Elton, Executive Director, (Advancement), Life & Physical Sciences, M.A. (Leadership) (GUELPH)
J. Moreton, Director, Alumni Affairs, B.A. (GUELPH), M.A. (WLAUR.)
S. Woeller, Director, O.V.C. Advancement, B.A. (GUELPH)
L. Woodcock, Associate Director, Annual Giving, B.S.C.H. (QUEENS)

Arboretum
A. Watson, Director, B.S.C. M.S.C. (GUELPH)

Athletics
T. Kendall, Director of Athletics, Teaching Diploma (ALSAGER), B.A., M.A. (ALTA.)
B. Brown, Assistant Football coach, B.COMM (GUELPH), M.S.C.ED (NIAGARA U)
D. Burton, Swim Coach
F. Cain, Facility Supervisor - Gryphon Centre/Fields, B.A. (GUELPH)
S. Camp, Men's Hockey Coach, B.A. (MTA.)
B. Clausen, Manager of Facilities
D. Cox, Wrestling Coach
D. Easter, Manager of Marketing and Communications, B.COMM. (WINDSOR)
R. Flanagan, Woman's Hockey Coach, B.S.C. (GUELPH), B.ED. (LAKEHEAD)
P. Funk, Womens Volleyball Coach, B.A. (WINN.)
G. Garcia, Intramural Supervisor, B.S.C. (LAKE SUPERIOR ST.), DIP. REC. (CAMBRIAN)
G. Kendall, Manager - Student Affairs Advancement, B.P.E., M.A. (MANIT.)
S. Mau, Manager, Fitness and Recreation, B.S.C. (GUELPH)
J.M. Lynch, Assistant Sports Therapist, B.P.H.E. (TOR.), DIP. (SHERIDAN), CERTIFIED
K.W. Mason, Men's Soccer Coach
C. McAuley, Client Service Supervisor, Women's Rugby Coach, M.B.A. (WLAUR.), M.S.C. (GUELPH)

L. Melnick, Manager, Business and Client Services, B.S.C. (P.E.) (YORK, CAN.), M.A.LEADERSHIP (GUELPH)
G. Obrascovs, Sports Therapist, DIP. ATHLETIC TRAINING and MGT. (SHERIDAN), CERTIFIED
C. O'Rourke, Men's Basketball Coach, B.A. (GUELPH)
A. Orton, Manager, Intercollegiate Athletics/ Women's Basketball Coach, B.S.C. (TOR.)
M. Pino, Media Relation and Communications Officer, B.A. (W.Laur.)
R. Ragan, Women's Soccer Coach, B.A. (S.FRASER), B.ED. (WONT.), L.L.B. (OSGOODE)
P. Richards, Lifestyle and Fitness Program Supervisor, B.P.H.E. (WIND.), B.ED. (TOR.)
D. Scott-Thomas, Cross Country Coach, and Track and Field Coach, B.S.C., M.S.C. (GUELPH), B.ED (QU.), DIP. COACHING (V.I.C.)
L. Skillton-Hayes, Coordinator of Fitness, B.S.C. (GUELPH)
M. Turley, Field Hockey Coach, Intercollegiate Assistant, B.A. (GUELPH)
J. Varamo, Events and Community Relations Coordinator, B.A. (GUELPH)
K. Walters, Football Coach, B.S.C. (GUELPH)
C. Wigston, Men's Volleyball Coach

Audit Services
S. Nervo, Manager, Audit Services, B.COMM. (TOR.), CA
H. Huisman, Senior Auditor - Systems, B.A. (GUELPH), CGA
M. Ene, Senior Auditor, B.A. (W. LAUR.), CA

Centre for Families, Work and Well-Being
L. Hawkins, Executive Director, B.A. (TOR.), M.A. (GUELPH)
D.S. Lero, Jarislo wsky Chair in Families and Work, B.A. (N.Y. ST.), M.S., PH.D. (PURDUE)

Centre for International Programs
L.A. Mitchell, Director, B.S.C. (AGR.), M.S. (GUELPH)
L. Blankenoso, Study Abroad Manager, B.S.C. (GUELPH)
A. Broadbent, Education Abroad Advisor, B.F.A. (MOUNT ALLISON)

Centre for Studies in Leadership
B.M. Earn, Director, B.A. (MANIT.), M.A., PH.D. (TOR.)
M. Cox, Associate Director, M.A. (W. WASH.), PH.D. (OHIO)

Communications and Public Affairs
C. Cunningham, Director, B.E.S. (Waterloo)
L. Bona Hunt, Associate Director, News Service, B.S.C. (UTAH), M.A. (Leadership) (GUELPH)
S. Bubak, News Editor, B.A. (Waterloo), B.J. (Ryerson)
M. Dickieson, Manager Publications, B.J. (MISSOURI)
S. Robertson, Manager, University Website, B.A. (YORK, CAN.)
A. Scott, Web Designer
A. Bowles, Staff Writer, B.S.C. (GUELPH)
V. Ward, Administrative Assistant

Campus Community Police, Fire Prevention and Parking Services
R. Begin, Director
P. Martin, Manager of Operations, Campus Community Police and Fire Prevention
I. Weir, Manager, Parking Services

Computing and Communications Services
M. Ridley, Chief Information Officer and Chief Librarian, B.A. (GUELPH), M.A. (NEW BR.), M.L.S. (TOR.)
D.D. Badger, Director, IT Portfolio Management Office, C.G.A., C.I.S.A
K. Bertrand, Associate Director, Organizational Services, B.COMM. (WIND.), C.G.A
D. Blain, Manager, IT Security, B.A. (WIND.)
L. Constantion, Manager, Business Office, Organizational Services, B.A., M.A. (A.S.E.)
G. Gray, Manager, B.A.H., MBA
K. Hoeg, Manager, B.S.C. (WAT.)
J. Lennie, Associate Director, B.A. (GUELPH)
L. Loo, Manager, B.A. (GUELPH)
A. MacPherson, Manager, B.A.H., MBA
K. Percival, Manager, IT Development, B.S.C. (ENG.), M.S.C. (GUELPH)
K. Sprague, Manager, Facilities Services, Organizational Services
B. Wandschneider, Associate Director, B.A. (QU.), M.A. (GUELPH)
R. Ward, Manager, Evaluation and Analysis, Organizational Services, B.S.C., M.S.C. (WAT.)
A. Weller, Manager, Personnel and Administration, Organizational Services

Last Revision: March 15, 2014
2011-2012 Undergraduate Calendar
Co-operative Education and Career Services

K. Reimer, Director, B.A. (WAT.), M.A. (GUELPH), BUS. DIP. (W.LAU.)
L. Hart, Assistant Director, DIP (CONESTOGA)
M. Brodie, On-Campus Co-ordinator, B.A. (GUELPH)
J. Brydges, Co-op Co-ordinator, B.A. (W.O.N.T.), DIP. ED. (MCG.)
J. Ferguson, Co-ordinator, Educational Planning and Job Search, B.A. (GUELPH)
S. Gallina, Co-op Co-ordinator, B.A. (GUELPH)
T. Gavin, Co-ordinator, Career Development and Online Initiatives, B.A. (GUELPH), CAREER DEVELOPMENT PRACTITIONERS CERTIFICATE (CONESTOGA)
S. Hollidge, Co-op Co-ordinator, B.A.SC. (GUELPH)
A. Kramer, Co-op Co-ordinator, B.S.C. (WAT.)
E. Mancini, Events and Liaison Co-ordinator, B.A. (GUELPH), B.ED. (W.O.N.T.)
S. Nuttley, Manager, Office Systems
C. Steele, Co-ordinator, Employer Relations and Events
A. Dane, Assistant Co-ordinator, Student Programs, B.A., DIP HUMAN RESOURCES MANAGEMENT (GUELPH), I. Wallace, Co-op Co-ordinator, B.A.A. (W.LAU.)
B. Wilson, Assistant Director/Co-op Co-ordinator, B.S.C. (WAT.), M.A. (Guelph)

Environmental Health and Safety

C.A. White, Director, Environmental Health and Safety, B.S.C., PH.D. (CARL.)
D. Barillari, Radiation Safety Officer, B.A.SC., M.ASC. (TOR.), PH.D. (MANIT.)
C. Cooper, Industrial/Agricultural Safety Officer, RVT.
C. McNeil, Facilities Safety Officer, B.S.C. (QU.), M.ENG. (TOR.), CHI, ROH
J. Minogue, Biosafety Officer, B.S.C. (VA TECH), M.S.P.H. (UNC-CHAPEL HILL)
D. Persaud, Occupational Hygiene Safety Officer, B.A. (YORK), B.A.SC. (TOR.), B.ED. (BROCK)
J. Wesley, Laboratory Safety Officer, B.S.C., M.SC. (GUELPH)

Financial Services

J.M. Miles, Assistant Vice-President (Finance), B.A. (WAT.), C.M.A.
B.K. Hodgson, Controller, B.A. (WAT.), C.A.
D. Stevanus, Manager, Purchasing Services, C.P.P.
L.C. Shuh, Manager, Budget Office, B.A. (GUELPH), C.G.A.
G. White, Manager, Revenue Control, B.S.C. (GUELPH), B.ED., C.H.A.
S. Alexander, Insurance Office, HON.B.A. (YORK), BUS. DIP. (WLU)
G. Girouard, Treasury Office, B.COMM. (McM.)
D. Reinhart, Research Financial Services, HONS.B.A., (WLU.), C.M.A.

Health and Performance Centre

C. McLean, Centre Co-ordinator, B.P.E. (NEW BR.), M.SC. (GUELPH)

Hospitality Services

D. Boeckner, Director, Hospitality Services
A. Virani, Assistant Director, Management Information Systems
K. Zinken, Assistant Director, Finance
P. Clark, Department Head, Food Service Operations
W. McFadden, Department Head, Retail Services
S. Willans, Department Head, Community Services

Human Resources

M. Harley, Assistant Vice-President (Human Resources), H.B.SC.
A. Boodram, Manager, Human Resources Planning, B.A., CHRM.
G. MacNeil, Manager, Occupational Health and Wellness, B.Sc., R.N.
L. Watt, Manager, Learning & Development, B.A., M.A.
L. Wilson, Manager, Total Compensation, B.S.C., M.B.A. (MCM.)

Human Rights and Equity Office

P. Case, Director, LL.B., LL.M. (OSGOODE)
M. Ebrahim, Human Rights Advisor, M.SC. (W.O.N.T.)
L. Arnott, Human Rights Advisor, B.A. (GUELPH), LL.B. (W.O.N.T.)

Learning Commons

N. Schmidt, Director, B.A., M.Sc. (WIS.), ED.D. (TOR.)

Library

M. Ridley, Chief Information Officer and Chief Librarian, B.A. (GUELPH), M.A. (NEW BR.), M.L.S. (TOR.)
R. Bergart, Academic Liaison Librarian, B.A. (MCG.), M.A. (MCM.), E.J.ED. (BOS.), M.I.St. (TOR.)
K. Bertrand, Associate Director, Organizational Services, B.COMM. (WIND.), C.G.A.
K. Bianco, Supported Learning Groups Co-ordinator, B.A., M.S.C. (GUELPH)
J.F. Brett, Manager, OVC Learning Commons, B.S.C., M.S.C. (GUELPH), M.L.S. (W.O.N.T.)
L.D. Bruce, Head, Archival and Special Collections, B.A., M.A. (MCM.), M.L.S. (W.O.N.T.)
E. Bungay, Web Development Librarian, B.S.C., B.A., B.ED. (MEM.), M.L.I.S. (MCG.)
J. Burpee, Manager, Reference and Information Literacy, B.A. (C'DIA), DIP.ENVS., M.L.I.S. (MCG.)
L. Campbell, Manager, Library Development and Public Relations, B.A., M.A. (MCM.)
I. Constantin, Manager, Business Office, Organizational Services, B.A., M.A. (A.S.E.)
L. DaMaren, Manager, Acquisitions and Data/Materials Maintenance
A. Gow, Co-ordinator, Library Centre for Students with Disabilities, B.ED. (TOR.), B.A., M.A. (GUELPH)
J. Kaufman, Head, Information Services, B.A. (WAT.), M.L.S. (TOR.)
M. Kope, Learning Services Co-ordinator, B.A. (W.LAU.R.) B.ED. (QU.), M.ED. (OISIE)
P. Lupien, Academic Liaison Librarian, B.A. (MCG.), M.L.I.S. (MONTR.)
H. Martin, Manager, E-Learning Operations, Reserve and TUG Annex Services
K. Mooney, Media Services
N. Palomino, Manager, Library Services, Guelph Humber, B.A. (University of Morón, Argentina), M.S.I.S. (University of Texas at Austin)
C. Perry, Academic Liaison Librarian, B.A. (GUELPH), B.ED. (QU.), M.L.I.S. (W.O.N.T.)
H. Salmon, Associate Chief Librarian, User Services, B.A., M.A., M.L.I.S. (W.O.N.T.)
D. Sartori, Manager, Circulation and Interlibrary Services
K. Sprague, Manager, Facilities Services, Organizational Services
C. Steeves, Associate Chief Librarian, Information Technology Services, B.A. (MC G.), M.L.I.S. (W.O.N.T.)
J. Walker, Manager, Systems Support, Information Technology Services, B.S.C., B.A. (GUELPH), M.L.S. (TOR.)
J. Wanner, Academic Liaison Librarian, B.A. (MINN.), M.E. (TEMPLE), M.L.S. (W.O.N.T.)
R. Ward, Manager, Evaluation and Analysis, Organizational Services, B.S.C., M.S.C. (WAT.)
A. Weller, Manager, Personnel and Administration, Organizational Services

Macdonald Stewart Art Centre

J. Nasby, Director and Curator, B.A. (MC M.)

Office of Open Learning

J. Cassidy, Director, B.A., M.A., PH.D. (GUELPH)
M. Fach, Associate Director, Finance, Learner Services and Human Resources, M.B.A. (ATHAB.)
M. Kormanskij, Academic Assistant to the Director, B.A. (QU.)
K. Merrikh, Marketing and Communications Manager, B.COMM., M.B.A. (GUELPH)
D. Wilson, Senior Manager Information Systems and Learning Technology Development, B.COMM. (GUELPH)

Continuing Education

S. Fleischauer, Manager, Program Development, B.A. (W. LAUR.), B.L.A. (GUELPH)
M. Gauouette, Manager, Program Development, B.A. (McM.), B.ED. (ATTA.), M.A. (GUELPH)
W. Hodges, ESL Academic Co-ordinator/Head Teacher, B.S.C. (TOR.), M.ED. (BROCK)
P. Nagle, ESL Manager, Program Development, B.A. (WAT.), M.ED. (WIND.), M.B.A. (W.O.N.T.)
R. Rogers, Manager, Program Development, B.COMM. (RYERSON)
XXVI. Administration and Faculty, Administrative Departments

P. Shaver, Manager, Program Development, B.SC.(AGR.) (GUELPH)
V. Smith, Associate Director, Continuing Education Business and Program Development, B.A. (YORK CAN.), M.A. (CMU), PH.D. (OISE)
L. Stobbe, Manager, Program Development, B.SC. (BIO) (W. ONT.), M.ED. (OISE)

Distance Education

J. Butler, Distance Learning Program Development Specialist, B.SC. (N.) (MCG.), M.ED. (OISE/TOR.)
L. Carey, DE Production Manager
S. Douglas, Associate Director, Distance Education, Innovation and Learning Technologies
N. Giesbrecht, Distance Learning Program Development Specialist, B.A. (GUELPH)
M. Misanchuk, Distance Learning Program Development Specialist, B.A. (SASK.), M.A., M.SC., PH.D. (INDIANA)
J. Palmer, Distance Learning Program Development Specialist, B.A. (MICH. STATE), M.S. (SURREY)
P. Payne, Distance Learning Program Development Specialist, B.COMM. (WINDSOR), B.ED. (BROCK), M.SC.ED. (CSU)
M. Smart, Open Learning program Counsellor, B.A. (GUELPH)

Office of Registrarial Services

B.D. Pettigrew, Assistant Vice-President (Institutional Research and Planning) and Registrar, B.A. (GUELPH), M.S.W. (WLAUR.)
P. Johnston, Research Analyst, B.A., M.S. (GUELPH)

Admissions Services

D. Plexman, Associate Registrar, B.A. (MORAVIAN), M.S. ED. (MOMMOUTH)
A. Gallupe, Information Service Manager, B.A. (GUELPH)
E. Gatsinos, Assistant Registrar, Student Recruitment, B.A., M.A. (GUELPH)
N. Gazzola, Liaison Officer, National and Transfer Recruitment, B.A. (GUELPH)
S. Goody, Liaison Officer, Recruitment Events, B.A.SC. (GUELPH)
M. Haggarty, Admissions Counsellor, B.A. (GUELPH)
J. Hogan, Assistant Registrar, Admissions, B.A. (GUELPH), M.T.S. (TOR.)
D. Lundmark, Admissions Counsellor, B.A. (GUELPH)
N. Shepard, Liaison Officer, National Recruitment, B.A. (GUELPH)
L. Stillman, Acting International Liaison Co-ordinator, B.A. (Mount Allison University), M.A. (University of Leeds, UK)

Graduate Program Services

P. Sinclair, Associate Registrar, Graduate Program Services, B.A. (GUELPH)
S. Janssen, Graduate Liaison Officer, B.A. (McMaster)

Registrarial Systems and Technology

T.G. Frank, Systems Analyst, B.SC. (GUELPH)

Scheduling

C.M. Canary, Assistant Registrar, Scheduling, B.A. (DAL.), M.A. (GUELPH)

Student Financial Services

D. Mair, Assistant Registrar, B.A. (WLAUR.)
M. Bertolo, Awards Officer
J. Mohammed, Supervisor, Student Accounts, C.G.A.
B. Palmer, Manager Student Business Services

Enrolment Services

S. Anthony, Assistant Registrar
S. Holley, Acting Manager, Enrolment Services, Service Area
S. Holley, Program Co-ordinator

Office of Research

A. Wildeman, Vice-President (Research), B.SC., M.SC. (SASK.), PH.D. (GUELPH)
S. Liss, Associate Vice-President (Research Services), International Liaison Officer and Professor, B.SC. (W. ONT.), M.SC., PH.D. (SASK.)
R.J. McLaughlin, Associate Vice-President (Research, Agri-Food and Partnerships), Professor, B.Sc. (AGR.), PH.D. (GUELPH), P.Ag.
R. Mocca, Associate Vice-President (Agri-Food and Partnerships) and Professor, M.SC. (GUELPH)

Office of Student Affairs

B. Whiteside, Associate Vice-President (Student Affairs), B.A., M.A. (GUELPH)
L. Gatto, Assistant to the Vice-President (Student Affairs), B.A. (GUELPH)

Physical Resources

R.J. Carter, Assistant Vice-President, Physical Resources, M.A.SC., PENG.
D. MacLachlan, Director, Maintenance and Energy Services, PENG.
E. Martin, Director, Environmental Services

C. Runciman, Director, Finance and Administration, B.A. (GUELPH)
R. Vandervors, Director, Design, Engineering and Construction, C.E.T.

Student Health Services

L. Davenport, Director, R.N. (TOR. GEN.), B.A. (WLAUR.), M.Ed. (BROCK)

Student Housing Services

I.B. Thompson, Director, B.A. (WIND.)
B. Harwood, Associate Director, Facilities and Desk Services
G. Cole, Associate Director, Residence Life
R. Laird, Manager, Business Operations, B.ACCS. (CALG.)
J. West, Co-ordinator, Research and Special Projects, B.A., B.ED., M.ED. (WIND.), Dip. Research Analyst (GEORGIAN)
W. Illsley, Manager, Facilities
B. Robbins, Manager, Family Housing Rental and Community Life
A. Mead, Manager, Residence Admissions, B.A. (MCN.)
J. Mead, Manager, Desk Services, B.A. (GUELPH)

Student Life

L. Schnarr, Director, M.A. (GUELPH)
A. Bridgman, Program Assistant, B.A. (Guelph)
T. Dickins, Co-ordinator, Transition Programming, B.A. (GUELPH)
J. Doner, Co-ordinator, Citizenship and Community Engagement, B.A. (TRENT), B.ED. (QU.)
K. Hofer, Manager, Off Campus Living, B.A.SC. (GUELPH), M.S.W. (WLAUR.), R.S.W.
R. Farahbakhsh, Co-ordinator, Experiential Education & Community Engagement (acting), B.A.S. (MOUNT-ALLISON), M.Sc. (GUELPH)
D. Kemp, Administrative Assistant
T. Lasis, Manager, Office of Intercultural Affairs, B.S.W. (RYERSON), M.Sc. (STOCKHOLM)
M. Munaretto, Coordinator, New Student Advising, B.A. (WLAUR.), M.A. (U.B.C)
I. M. ndel, Co-ordinator, Experiential Education & Community Engagement, B.A. (AUGUSTANA), M.A. (GUELPH)
D. Poulin, OUTH Coordinator, B.A. (GUELPH)
N. Ordóñez, Co-ordinator, Mentoring Programs, B.A. (MCMASTER)
B. Quay, International Student Advisor, B.A. (VIC.B.C.)
R. Routledge, Co-ordinator, Orientation Programs, B.Ed (ALBERTA), M.A. (ROYAL ROADS)
N. Smith, Aboriginal Program Facilitator, B.A. (GUELPH)
C. Stewart, Intercultural Affairs Transition & Program Facilitator, B.Sc (GUELPH), M.Sc. (GUELPH)
S. Thiobodeau, Coordinator, Leadership Education and Development, B.A. (GUELPH)
H. Trudeau, Aboriginal Liaison & Transition Coordinator, B.A. (GUELPH)
B. Townsend, Manager, Centre for New Students Counsellor, B.A. (GUELPH), M.S.W. (TOR.), R.S.W.
C. Wehkamp, Aboriginal Student Advisor, B.Sc., M.Sc., PH.D. (GUELPH)
B. Williams, Manager, Off Campus Living (acting), B.A. (COLORADO STATE), M.Sc. (WESTERN ILLINOIS)

Teaching Support Services

F.T. Evers, Director and Professor, B.SC. (CORNELL), M.SC., PH.D. (IOWA STATE)
S. Borho, Manager, Classroom Technology Design, DIPL. (FANSHAWE), (CTS-D)
R.B. Gorrie, Manager, Learning Technology and Courseware Innovation, M.A. (SASK.), PH.D. (GUELPH)
N. Penny, Educational Development Associate, B.SC., M.L.A., PH.D. (GUELPH)
K. Mackie, Manager, Courseware Services, B.A. (GUELPH)
W.C. Robinson, Manager, Classroom Resource
M. Wilson, Educational Development Associate, B.A., M.A. (GUELPH) ED.D. (OISE TOR.)
P. Wolf, Associate Director and Manager, Educational Development, B.S.W. (MCG.)
J.Z. Wolstenholme, Educational Development Associate, AOCA (Toronto), B.A., M.A. (GUELPH), C.D.P.

Undergraduate Academic Information Centre

S.G. Dorr, Co-ordinator, B.A., M.A. (GUELPH), M.S. (KANSAS ST.)

University Centre

W.J. McNaughton, Director, DIPL.T., B.A., C.G.A.
L. Barrington, Executive Secretary, Secretary to the Board
M. Hahn, Manager, Building and Reservations

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
J. Lamb, Assistant Manager, Operations
P. John, Business Manager, B.COMM., C.G.A.
J.M. Calvert, Manager, Operations

**College of Arts**

D. Bruce, Dean and Professor, B.A. (ALBERTA), M.A. (QUEBEC), PH.D. (TORONTO)
A. Wilson, Associate Dean (Academic) and Associate Professor, B.A., M.A., PH.D. (YORK)
S.G. McCook, Associate Dean (Graduate Studies and Research), and Associate Professor, B.A. (TORONTO), M.S. (RENSSELAER P.I.), M.A., PH.D. (PRINCETON)
J. Walsh, Vice-Provost (Guelph/Humber), B.A. (THAMES POLYTECH.), M.B.A., PH.D. (W.ONT.)
S. Sabatini, Manager, Research and Business Development, B.A., M.A. (GUELPH), PH.D. (WATERLOO), Associate Graduate Faculty, (Guelph-Humber MFA Creative Writing)
M. Edwards, Bachelor of Arts Program Counsellor, B.B.A. (W.LAUR.)
S. Lapenskie, Assistant Bachelor of Arts Program Counsellor, B.A. (W.ONT.), M.F.A. (GUELPH)
S. Lachapelle, Assistant Bachelor of Arts Program Counsellor, B.SC. (GUELPH)
H. Remigis, Assistant Bachelor of Arts Program Counsellor, B.A. (MCMASTER), M.T.S (TYNDALE SEMINARY)
J. Chang, Bachelor of Arts and Science Program Counsellor, B.A. (GUELPH)

**Department of History**

P.A. Goddard, Associate Professor and Chair of the Department, B.A. (BR.COL.), D.PHIL. (OXON.)
A. Gordon, Associate Professor and Associate Chair of the Department, B.A. (TOR.), M.A., PH.D. (QU.)
D.T. Andrew, Professor Emerita, B.A. (C.C.N.Y.), M.SC. (LOND.), PH.D. (TOR.)
K.M. Cassidy, Professor Emeritus, B.A. (MONT.R.), M.A., PH.D. (TOR.)
T.A. Crowley, Professor Emeritus, B.A. (BISHOPS), M.A. (CAR.), A.M., PH.D. (DUKE)
P.D.W. McCalla, Professor Emeritus, B.A. (QU.), M.A. (TOR.), D. PHIL. (OXF.)
D.R. Murray, University Professor Emeritus, B.A. (BISHOPS), M.A. (EDIN.), PH.D. (CAMB.)
R.M. Reid, Professor Emeritus, B.A. (CAR.), M.A., PH.D. (TOR.)
J.G. Snell, University Professor Emeritus, B.A. (MCG.), M.A. (W.ONT.), PH.D. (QU.)
G.A. Stelter, University Professor Emeritus, B.A. (MORAVIAN), B.D., PH.D. (ALTA.)
D.R. Farrell, Professor Emeritus, B.A., M.A. (WIS.), PH.D. (W.ONT.)
C.J. Munford, Professor Emeritus, B.A., M.A. (W. RESERVE), D.PHIL. (LEIP.)
E.G. Reiche, Professor Emeritus, B.A. (WONT.), PH.D. (DEL.)
M.E. Rogers, Professor OXFEmerita, B.A., M.A. (PENN.)
T.H. Abraham, Assistant Professor, B.SC. (MCMASTER), M.A., PH.D. (HPST, TOR.)
C. Carstairs, Associate Professor, B.A. (HARVARD), M.A., PH.D. (TOR.)
W.S. Cormack, Associate Professor, B.A. (CALG.), M.A. (CAR.), I.PH, (QU.)
E.L. Ewan, Professor, University Research Chair, B.A., PH.D. (EDIN.)
M.C. Hayday, Associate Professor, B.A. (TOR.), M.A., PH.D. (OTT.)
S.C. Humble-Ferreira, Assistant Professor, B.A. (TRENT), M.A., PH.D. (JOHNS HOPKINS)
K.E. Inwood, Professor, Joint appointment with Department of Economics, B.A. (TRENT), M.A., PH.D. (TOR.)
K.J. James, Associate Professor, B.A., M.A. (MCG.), PH.D. (EDIN.)
F.J. Kolapo, Associate Professor, B.A., M.A. (AHMADU BELLO), PH.D. (YORK, CAN.)
S. Lachapelle, Associate Professor, B.SC., M.A. (MONTREAL), PH.D. (NOTRE DAME)
L.L. Mahood, Professor, B.A. (SASK.), M.LITT., PH.D. (GLAS.)
S.G. McCook, Associate Professor and Associate Dean (Graduate Studies and Research), B.A. (TORONTO), M.S. (RENSSELAER P.I.), M.A., PH.D. (PRINCETON)
A. McDougall, Associate Professor, B.A., M.A., D. PHIL. (OXF.)
G. Morton, Professor and Scottish Studies Foundation Chair, M.A., PH.D. (EDINBURGH)
J. Murray, Professor, B.A. (HONS) (BR.COL.), M.A., PH.D. (TOR.)
S. Nance, Associate Professor, B.A., M.A. (S.FRASER), PH.D. (UC BERKELEY)
J.S. Paletta, Associate Professor, B.A., M.A., PH.D. (TOR.)
K. Racine, Associate Professor, B.A. (SASK.), M.A., PH.D. (TULANE)
N. Smith, Associate Professor, B.A., M.A., PH.D. (BR.COL.)
C.A. Wilson, Professor, B.A. (GUELPH), M.A., PH.D. (QU.)
R. Worringer, Assistant Professor, B.A. (ST. OLAF), M.A., PH.D. (CHICAGO)

**Department of Philosophy**

A. Bailey, Associate Professor and Departmental Chair, B.A., M.A. (OXON), PH.D. (CALG.)
K. Dorner, Professor Emeritus, B.A. (QUEENS COLLEGE, N.Y.), M.A., PH.D. (PENN STATE)
H. Lehman, Professor Emeritus, A.B. (UNION COLLEGE), A.M., PH.D. (HARVARD)
J. Leslie, University Professor Emeritus, B.A., M.A., M.LITT (OXON), F.R.S.C.
J. McMurtry, University Professor Emeritus, B.A., M.A. (TOR.), PH.D. (LONDON), F.R.S.C.
O. Dedegard, University Professor Emeritus, B.A., M.A. (UWO), PH.D. (LONDON)
T.W. Settle, Professor Emeritus, B.A. (LEEDS), B.SC. (MANC.), PH.D. (HONG KONG)
C. Stewart, Professor Emerita, B.A., M.A., (MANIT), PH.D. (LONDON)
D. Dedrick, Associate Professor, B.A., M.A. (CAR.), PH.D. (TOR.)
M. Deveaux, Professor and Canada Research Chair, B.A., M.A. (MCG.), M.PHIL., PH.D. (CANTAB)
P. Eardley, Associate Professor, B.A. (MCG.), M.A., PH.D. (TOR.)
K. Freedman, Associate Professor and Departmental Associate Chair, B.A., M.A. (MANIT), PH.D. (TOR.)
J. Hacker-Wright, Assistant Professor, B.A. (BRADLEY U), PH.D. (SUNY STONY BROOK)
J. Harvey, Associate Professor, B.A. (WALES), M.A. (S. FRASER), PH.D. (UBC)
K.L.F. Houle, Associate Professor, B.S.C., M.A., PH.D. (GUELPH)
J. Lampert, Associate Professor, B.A., M.A., PH.D. (TOR.)
S. Linquist, Assistant Professor, B.A. (SFU), M.SC. (SUNY BINGHAMPTON), PH.D. (DUKE)
P. Loptson, Professor, B.A. (YORK, CAN.), M.A., PH.D. (PITT.)
M. McCullagh, Associate Professor, B.A. (TOR.), PH.D. (PITT.)
J. Mitscherling, Professor, B.A. (UC SANTA BARBARA), M.A. (MCM.), PH.D. (GUELPH)
O. Payrow Shahani, Associate Professor, B.A., M.A. (CAR.), PH.D. (OTT.)
J.E. Russon, Professor, B.A. (REGINA), M.A., PH.D. (TOR.)
P. Sheridan, Associate Professor, B.A. (MCG.), M.A., (CON.), PH.D. (W.ONT.)
A. Wayne, Associate Professor, B.S.C. (TOR.), M.A., PH.D. (UC SAN DIEGO)
K. Wendling, Associate Professor and Undergraduate Coordinator, B.A. (MICH.ST.), M.A., PH.D. (TOR.)
B. Weistm, Assistant Professor, B.A. (TOR.), M.A., PH.D. (GUELPH)

**School of Fine Art and Music**

J. Kissick, Professor and Director of the School, B.F.A. (QU.), M.F.A. (CORNELL)
M. Cyr, University Professor Emerita, B.A., M.A., PH.D. (BERKELEY)
S.M. Lake, Professor Emerita, M.F.A. (CDIA)
G. Moray, Professor Emerita, M.A. (OXON.), POSTGRAD. DIP. (CURTAULD), PH.D. (CAMB.)
M. Priest, Professor Emerita, DIP. A.D. (MAIDSTONE C.A.), M.A. (R.C.A., LOND.)

**Art History**

S. Douglas, Assistant Professor, B.A. (W.ONT.), M.A. (CAR.), PH.D. (CDIA)
S. Hickson, Assistant Professor, B.A. (CARLETON), M.A., PH.D. (QU.)
D. Marner, Associate Professor, B.A. (REGINA), M.A. (VICTORIA), PH.D. (EAST ANGLIA, UK)
J. Potvin, Assistant Professor, B.A. (ALBERTA), M.A. (CARLETON), PH.D. (QU.)

**Music**

J. Harley, Associate Professor, B.MUS. (W. WASHINGTON), D.MUS. (MCG.)
M. McCarthy, Assistant Professor, MUS.BACH. (TOR.), M.MUS (WESTMINSTER CHOIR COLLEGE, PRINCETON), B.ED., PH.D. (TOR.), ARCT (RCM)
E. Phillips, Associate Professor, B.A. (AMHERST), M.A., M.PHIL., PH.D. (YALE)
H. Spring, Assistant Professor, B.F.A., M.F.A. (YORK), PH.D. (ILL.)
E. Waterman, Associate Professor, B.A. (MANIT), M.A., PH.D. (UCSD)

**Studio Art**

D. Borsato, Assistant Professor, B.F.A. (YORK CAN.), M.F.A. (CONCORDIA), M.A. (N.Y.)
J. Carl, Assistant Professor, B.F.A. (VIC.B.C.), B.A. (MCG.), Painting Dip. (Central Academy of Fine Art, Beijing), Sculpture Dip. (Central Academy of Fine Art, Beijing), M.F.A. (RITGERS)
S. Dobson, Assistant Professor, B.A.A. (RYERSON), M.PHIL., PH.D. (GUELPH)
R. Enright, Professor, B.A. (Sask.)
C. Giroux, Assistant Professor, B.F.A. (VICTORIA), M.F.A. (NSCAD)
W. Gorlitz, Professor, B.F.A. (NSCAD)
K. Koslanka (FASTWURMS), Associate Professor, A.O.C.A. (OCAD)
J. Maddison, Associate Professor, Dip. Art and Design, Fine Arts (Coventry College of Art and Design, ENG.), M.F.A. (R.C.A., LOND.)
M. Pearce, Assistant Professor, B.A. (UNIVERSITY OF NORTHERN LANDER), M.A. (R.C.A.)
S. Rechico, Assistant Professor, B.E.D. (ALTA.)
A. Renwick, Assistant Professor, M.F.A. (CONCORDIA)
D. Skuse (FASTWURMS), Associate Professor, B.E.A. (QU.)
M. Tap, Associate Professor, B.F.A., M.F.A. (NSCAD), DIP. (ALTA COLLEGE OF ART)
L. Woodcock, Associate Professor, B.F.A. (C'DIA), M.F.A. (NSCAD)

School of Languages and Literatures

C. Thomson, Professor and Director of the School, B.A., M.A., PH.D. (TOR.)
R. Benson, Professor Emerita, LES L. PROP MODERNE (MONTR.), PH.D. (MCG.)
K. Grinstead, Professor Emerita, B.A., M.A., PH.D. (TOR.)
M.K. Kremer, Professor Emeritus, Dr.PHIIL. (COLOGNE)
K. Mose, Professor Emeritus, B.A., DIPED. (LOND.), M.A., PH.D. (TOR.)
D. Paramskas, University Professor Emerita, B.S.L., M.S.L. (GEORGETOWN), PH.D. (LAVAL)

Classics

P. O’Cleirigh, Associate Professor and Head of Classics, B.A., M.A. (N.U.I.), PH.D. (CORNELL)
A. Sherwood, Associate Professor, B.A. (CALG.), M.A. (Vic.B.C.), M.A., PH.D. (PRIN.)

Études Françaises

F. Arroyos, Associate Professor, B.A., M.A., PH.D. (WONT.)
D. Bruce, Professor and Dean of College of Arts, B.A. (ALTA.), M.A. (QU.), PH.D. (TOR.)
D.M. Cornello, Associate Professor, B.A., M.A., PH.D. (U.CONNECT)
M. Irvine, Associate Professor, B.A., M.A., PH.D. (TOR.)
S. Nutting, Associate Professor and Head of French Studies, B.A. (TOR.), M.A., PH.D. (QU.)
J. Satyre, Associate Professor, MED. (MONTR.), PH.D. (MONTR.)
A. Thomas, Professor, B.A. (YORK, CAN.), M.A., PH.D. (TOR.)
C. Thomson, Professor and Director of the School, B.A., M.A., PH.D. (TOR.)

European Studies

M. Irvine, Associate Professor and Co-ordinator of European Studies, B.A., M.A., PH.D. (TOR.)
P. Mayer, Associate Professor, B.A. (TOR.), M.A., PH.D. (PRIN.)
A. McDougall, Associate Professor, B.A., M.A., PH.D. (OXF)
S. Parmegiani, Assistant Professor, LAUREA (TRIESTE), DOTT. (TRIESTE/ROME), PH.D. (TOR.)

German Studies

P. Mayer, Associate Professor and Head of German Studies, B.A. (TOR.), M.A., PH.D. (PRIN.)
R. Mueller, Associate Professor, B.A. (BR.COL.), M.A. (MCG.), PH.D. (QU.)
W. Scholtes, Associate Professor, B.A., B.MUS. (W.LAUR.), B.ED. (WONT.), M.A., PH.D. (WAT.)

Italian Studies

M.M. DeCoste, Associate Professor and Head of Italian Studies, B.A. (MASSACHUSETTS), M.A., PH.D. (CORNELL)
S. Parmegiani, Assistant Professor, LAUREA (TRIESTE), DOTT. (TRIESTE/ROME), PH.D. (TOR.)

Hispanic Studies

R. Gomez, Associate Professor, B.A., M.A., PH.D. (TOR.)
S. Henighan, Professor and Head of Spanish Studies, B.A.(SWARTHMORE), M.A. (CDIA.), D.PHIIL. (OXF)
D. Mohan, Assistant Professor, B.A.HONS (GUELPH), M.A. (WONT.)
D. Oadare-Wellington, Associate Professor, B.A. (GHANA), M.A., PH.D. (MCG.)
G. Yovanovich, Professor, B.A. (CAR.), M.A., PH.D. (TOR.)

School of English and Theatre Studies

E. Benson, University Professor Emeritus, B.A. (N.U.I.), M.A. (WONT.), PH.D. (TOR.)
J.E. Harrison, University Professor Emeritus, B.A., M.LITT. (DURH.)
G.D. Killam, University Professor Emeritus, B.A. (BR.COL.), PH.D. (LOND.)
M. Rubio, University Professor OXF. Emerita, B.A. (DEPAUW), M.A. (ILL.), PH.D. (MCM.)
M.E. Waterston, University Professor OXF:Emerita, B.A. (TOR.), M.A. (BRYN MAWR), PH.D. (TOR.)

Theatre Studies

A.D. Filewood, Professor, B.A. (YORK), M.A. (ALTA.), PH.D. (TOR.)
P. Flood, Assistant Professor, B.F.A. (ALTA)
M. Fortier, Professor and Director, B.A. (WINDSOR), M.A., PH.D. (YORK CAN.), LL. B. (TOR.)
S. Gilbert, Assistant Professor and University Research Chair, B.F.A. (YORK CAN.), M.A., PH.D. (TOR.)
R. Knowles, Professor, B.A., M.A., PH.D. (TOR.)
M. Lipton, Associate Professor, B.A. (CONCORDIA), M.A., PH.D. (N.Y.UNIV)
PA. Mulholland, Professor, B.A., M.A. (TOR.), PH.D. (BIRM)
J. Smith, Professor, A.O.C.A. (Ontario College of Art)
J. Thompson, Professor, B.A. (QU.), CERT. (NATLI THEATRE SCH.)
A. Wilson, Associate Professor and Associate Dean of Arts and Social Science, B.A., M.A., PH.D. (YORK CAN.).

English

C. Bold, Professor, M.A. (EDIN.), PH.D. (LOND.)
D. Brand, Professor and University Research Chair, B.A., M.A. (O.I.S.E.) (TOR.)
S. Brown, Professor, B.A., M.A. (DAL.), PH.D. (ALTA.)
J. Cairnie, Assistant Professor, B.A. (BROCK), M.A., PH.D. (YORK CAN.)
G. Campbell, Assistant Professor, B.A., M.A., PH.D. (TOR.)
E.K. Chang, Associate Professor, B.A. (BR.COL.), A.M., PH.D. (STAN.)
M. Elleray, Associate Professor, B.A. (VIC., WELI.), M.A. (HONS) (AUCK.) M.A., PH.D. (CORNELL)
J. Ferguson, Assistant Professor, B.A. (BR. COL.), M.A., PH.D. (CORNELL)
D.T. Fischlin, Professor and University Research Chair, B.A., M.A. (CDIA.), PH.D. (YORK CAN.)
M. Fortier, Professor and Director, B.A. (WINDSOR), M.A., PH.D. (YORK CAN.), LL. B. (TOR.)
A.J. Heble, Professor, B.A., M.A. (DAL.), PH.D. (TOR.)
H. Hoy, Professor, B.A., M.A., PH.D. (TOR.)
S. Kambourelli, Professor and Canada Research Chair, B.A. (ARISTOTELIAN, GREECE), M.A., PH.D. (MAN)
M.H. Keefe, Professor, B.A. (R.M.C.), M.A., PH.D. (SU.S.)
J. Kulyk Keefer, Professor, B.A. (TOR.), M.A., PH.D. (SU.S.)
T. King, Professor, B.A., M.A. (CHICO ST.), PH.D. (UTAH)
M. Micros, Associate Professor, B.A. (SWEET BRIAR COLL.), M.A. (ST.BONAVENTURE), PH.D. (WONT.)
M. Nandorfy, Associate Professor, B.A., M.A. (OTTAWA), PH.D. (TOR.)
D. O’Quinn, Professor, B.S.C., M.A. (WONT.), PH.D. (YORK CAN.)
S.D. Powell, Associate Professor, B.A. (OBERLIN), M.A. (INDIANA), PH.D. (TOR.)
P. Ramirez, Associate Professor, B.A. (YALE), M.F.A. (U MIAMI), M.A., PH.D. (MICHIGAN)
P. Salmon, Assistant Professor, B.A. (WONT.), M.A., PH.D. (WONT.)
J. Schacker, Associate Professor, B.A. (MCG.), M.A., PH.D. (INDIANA)
S. Singer, Assistant Professor, B.A. (TRENT), M.A. (QU.), PH.D. (CAMBRIDGE)
J.R. (Tim) Struthers, Associate Professor, B.A., M.A., PH.D. (WONT.)

College of Biological Science

M. Eames, Dean and Professor, B.S.C., PH.D. (SHEFFIELD)
B.C. Hushard, (Interim) Associate Dean (Academic) and Professor, B.S.C., M.S.C. (ALTA.), PH.D. (TOR.)
G.J. Van Der Kraak, Associate Dean (Research) and Professor, B.S.C., M.S.C. (MANIT.), PH.D. (BR.COL.)
D.E. Larson, Academic Assistant to the Dean, B.S.C. (BROCK), M.S.C. (MCG.), PH.D. (MCM.)
R. Guthrie, Program Counsellor, B.SC. (GUELPH)
H. Pollock, Assistant Program Counsellor and Liaison Co-ordinator, B.S.C. (GUELPH)

Department of Human Health and Nutritional Sciences

T.E. Graham, Professor and Chair of the Department, B.A., B.P.H.E., M.S.C. (QU.)
B.J. Holub, University Professor Emeritus, B.S.A., M.S.C., PH.D. (TOR.)
J.K. Barclay, Professor Emeritus, B.A. (WONT.), M.S.C., PH.D. (MICH.)
W.D. Woodward, Professor Emeritus, B.S.C., M.S.C. (BR.COL.), PH.D. (SHEFF.)

Last Revision: March 15, 2014

2011-2012 Undergraduate Calendar
College of Physical and Engineering Science

A. Vannelli, Dean and Professor, B.SC., M.SC., (CONCORDIA), PH.D. (WAT), PENG.  
G.A. Darlington, Associate Dean (Academic) and Professor, B.SC., M.SC. (GUELPH), PH.D. (WAT)  
E. McBean, Assistant Dean (External Partnerships) B.A.SC., (UBC), S.M., C.E. & PH.D. (MIT), PENG.  
L. Allen, Academic Assistant to the Dean, Bachelor of Science and Bachelor of Computing Program Counsellor, B.SC., M.SC.  
A.G. Dyer, Bachelor of Computing Program Counsellor and Professor, B.SC., M.SC. (GUELPH)  
L. McKenzie-Cordick, Senior Executive Office to the Dean, B.A., (GUELPH)  
K. Thompson, Bachelor of Engineering Program Counsellor, B.SC. (ENG.) (GUELPH), PENG.

Department of Chemistry

A.L. Schwan, Professor and Chair of the Department, B.SC. (WONT.), PH.D. (MCM)  
R.J. Balahura, Professor Emeritus, B.SC. (WAT), PH.D. (ALTA)  
N.J. Bunce, Professor Emeritus, M.A., D.PHIL. (OXF)  
A.K. Colter, Professor Emeritus, B.SC. (ALTA), PH.D. (CALIF)  
G. Ferguson, University Professor Emeritus, B.SC., PH.D., D.SC. (GLAS.)  
S. Goldman, Professor Emeritus, B.SC., PH.D. (MCG.)  
B.R. Henry, University Professor Emeritus, B.SC. (BR.COL.), PH.D. (FLOR.ST)  
R. McCrindle, Professor Emeritus, B.SC., PH.D., D.SC. (GLAS.)  
E.L. Auzanneau, Associate Professor, Maitrise, D.E.A., PH.D. (PARIS-SUD ORSAY)  
M.D. Baker, Professor, B.SC. (SUS.), M.SC., PH.D. (E. ANGLIA)  
M.K. Denk, Associate Professor, DIPL. CHEM., PH.D. (MUNICH)  
W. Gabryelski, Associate Professor, B.SC., M.SC. (GDANSK), PH.D. (ALBERTA)  
J.D. Goddard, Professor, B.SC. (WONT.), M.SC., PH.D. (TOR)  
A. Houman, Associate Professor, Maitrise (CASABLANCA), D.E.A., PH.D. (PARIS)  
L. Jones, Associate Professor, B.SC. (TECH) Program Counsellor, B.SC. (NEW BR.), PH.D. (GUELPH)  
J. Lipkowski, Professor, M.SC., PH.D., D.SC. (WARSAW)  
R.A. Manderville, Professor, B.SC., PH.D. (QU)  
M.A. Monteiro, Associate Professor, B.SC. (YORK CAN), PH.D. (YORK CAN)  
G.H. Penner, Associate Professor, B.SC., M.SC., PH.D. (MANIT)  
K. Preuss, Associate Professor, B.SC. (LETHBRIDGE), PH.D. (WATERLOO)  
P.A. Rowntree, Professor, B.SC., M.SC. (WAT), M.A., PH.D. (PRINCE)  
M. Schlaf, Associate Professor, DIPL. CHEM. (WURZBURG), PH.D. (TOR)  
D.V. Soldatov, Associate Professor, B.SC. (NOVOSIBIRSK), PH.D. (ACAD.SCI)  
W.W.L. Tam, Professor, B.SC. (HONG KONG), PH.D. (TOR)  
P.R. Tremaine, Professor, B.SC. (WAT), PH.D. (ALTA)  
D.F. Thomas, Associate Professor, B.SC. (ALTA), PH.D. (TOR)  
N.P.C. Westwood, Professor Emeritus, B.SC., PH.D. (STON)  

Department of Computing and Information Science

D.A. Stacey, Associate Professor and Chair of the Department, B.SC. (GUELPH), M.A.SC., PH.D. (WAT)  
M.A. Wirth, Associate Professor and Associate Chair, B.SC. (N.E.), M.SC. (MANIT), PH.D. (MELBOURNE I.T)  
Q.H. Mahmoud, Associate Professor and Associate Chair (Guelph/Humber) B.SC., M.SC. (NEW BR.), PH.D. (MIDDLESEX)  
J.G. Linders, Professor Emeritus, B.A.SC., M.A.SC. (TOR), D.I.C., PH.D. (IMP.COLL. LOND)  
J.C. Majithia, Professor Emeritus, B.SC. (LOND), M.EENG., PH.D. (MCM)  
D.K. Banerji, Professor, B.TECH. (I.I.T.), M.SC. (OTT), PH.D. (WAT)  
W.G. Booty, Adjunct Professor, B.SC. (WAT), M.SC., PH.D. (MCM)  
D.A. Calvernt, Associate Professor, B.A., M.SC. (GUELPH), PH.D. (WAT)  
D.K.Y. Chiu, Professor, B.SC. (GUELPH), B.A. (WAT), M.SC. (QU), PH.D. (WAT)  
M. Denko, Associate Professor, B.SC. (ADDIS ABBABA), M.SC. (WALES), PH.D.(NATAL)  
R. Denzer, Adjunct Professor, DIP. ENG. (KARLSRUHE), PH.D. (KAISERSLAUTERN)  
W. Dobosieiwcz, Professor, B.SC., M.A., M.SC., PH.D. (WARSAW)  
A.G. Dyer, Associate Professor, B.SC., M.SC. (GUELPH)  
W. Gardner, Associate Professor, B.S.E.E. (M.I.T.), B.ED. (TOR), PH.D. (VIC)  
G.W. Grewe, Associate Professor, B.SC. (BROCK), M.SC., PH.D. (GUELPH)  
A. Hamilton-Wright, Adjunct Professor, B.SC., M.SC. (GUELPH), PH.D. (WAT)  
S.C. Kremer, Associate Professor, B.SC. (GUELPH), PH.D. (ALTA)  
D. Lam, Adjunct Professor, B.SC. (HONG KONG), M.MATHS., PH.D. (WAT)  
X. Li, Professor, B.SC., M.SC. (NANJING), PH.D. (CALG)  
P. Matsakis, Associate Professor, B.SC., M.SC., PH.D. (PAUL SABATIER)  
J.R. McCuaig, Associate Professor, B.SC., B.ED., PH.D.(SASK)  
A. Morton, Adjunct Professor, B.SC. M.SC. (GUELPH), PH.D. (WAT)  
N. H. Nasser, Associate Professor, B.SC. (KUWAIT), M.SC. (KUWAIO), PH.D. (QU)  
B. Nonnece, Associate Professor, B.SC., M.SC. (GUELPH), PH.D. (S. BANK)  
C. Obimbo, Associate Professor, M.SC. (KIEV), PH.D. (NEW BR)  
J. Sawada, Associate Professor, B.SC., PH.D. (VICTORIA)  
W.M. Scherzter, Adjunct Professor, B.A., (WIND), M.SC. (MCM)  
F. Song, Associate Professor, B.SC. (JILLIN), M.SC. (ACADEMIA SINICA),PH.D. (WAT)  
D.A.B. Swayne, Professor, B.SC. (WAT), M.A. (YORK CAN.), PH.D. (WAT)  
F. Wang, Professor, B.E. (CHANGSHA), M.SC. (PEKING), PH.D. (WAT)  
T.C. Wilson, Adjunct Professor B.A.(IOWA), M.SC. (CHIC), PH.D. (WAT)  
M.L. Wineberg, Assistant Professor, B.SC. (TOR), M.SC., PH.D. (CAR)  
X. Xiang, Professor, B.SC. (BEIJING), PH.D. (BR. COL)  
J.Y. Zhu, Adjunct Professor, B.A.SC. (BEIJING), M.A.SC. (REGINA), PH.D. (GUELPH)  

Department of Mathematics and Statistics

O.B. Allen, Professor and Chair of the Department, B.SC., M.SC. (GUELPH), PH.D. (CÑELL)  
J. Cunsoleo, Associate Professor and Associate Chair, B.A. (MCM.), M.A. (WAT), PH.D. (TOR)  
W.F. Langford, University Professor Emeritus, B.SC. (QU), PH.D. (CAL.TECH)  
P. Fischer, Professor Emeritus, DIPLOMA (BUD), DOCTOR OF THE UNIVERSITY OF EOTVOS LORAND (BUD)  
W.G.S. Hines, Professor Emeritus, B.SC. (TOR.), M.SC., PH.D. (QU)  
J.A. Holbrook, Professor Emeritus, B.SC., M.SC. (QU), PH.D. (CALIF. TECH)  
J.D. Holt, Associate Professor Emeritus, B.SC., M.A. (TOR.), PH.D. (WAT)  
J.S. Huang, Professor Emeritus, B.A. (TAYWAN), M.B.A. (GEORGIA), PH.D. (MICH.ST)  
J.J. Hubert, Professor Emeritus, B.SC. (WIND), M.SC. (ALTA.), PH.D. (N.Y STATE)  
H.J. Malik, Professor Emeritus, B.A., M.A. (PANJ.), M.S., PH.D. (W.RESERVE)  
A.McD. Mercer, Professor Emeritus, B.SC., PH.D. (BELF)  
H. Pesotan, Professor Emeritus, B.SC., M.SC., PH.D. (MCMASTER)  
R. Ali, Assistant Professor, B.SC. (WONT.), M.SC. (TOR), PH.D. (WASH)  
D.A. Ashlock, Professor, B.SC. (KANSAS), PH.D. (CALIF.TECH)  
W.J. Balka, Assistant Professor, B.A., M.SC., PH.D. (GUELPH)  
C.T. Bauch, Associate Professor, B.S. (TEXAS), PH.D. (WARWICK)  
E.M. Carter, Professor, B.SC., M.SC., PH.D. (TOR)  
M.G. Cojocaru, Associate Professor, B.A., M.SC. (BUCHAREST), PH.D. (QU)  
G.A. Darlington, Professor, B.SC., M.SC. (GUELPH), PH.D. (WAT)  
R. Deardon, Assistant Professor, B.SC. (EXETER), M.SC. (SOUTHAMPTON), PH.D. (READING)  
A.F. Desmond, Professor, B.SC., M.SC. (U. COLLEGE CORK), PH.D. (WAT)  
H.J. Eberl, Associate Professor, M.SC., M.ECH.ENG., PH.D. (GERMANY)  
Z.Z. Feng, Assistant Professor, B.SC. (YORK CAN), M.MATH, PH.D. (WAT)  
M.R. Garvie, Assistant Professor, B.SC. (SUSSEX), M.S. (WALES), M.S. (READING), PH.D. (DURHAM, UK)  
S. Gismondi, Assistant Professor, B.SC., M.SC., PH.D. (GUELPH)
Department of Physics

J.L. Campbell, University Professor Emeritus, B.Sc., Ph.D., D.Sc.(Glasm.), D. Tech. (Lund)

P.A. Egelsstaff, University Professor Emeritus, B.Sc., Ph.D. (Lond.), F.R.S. (Can.)

C.G. Gray, University Professor Emeritus, B.Sc. (Qu.), M.A., Ph.D. (Tor.)

J.J. Hunter, Professor Emeritus, B.A. (Qu.), M.A., Ph.D. (Tor.)

K.R. Jeffrey, Professor Emeritus, B.Sc., M.A., Ph.D. (Tor.)

J. Law, Professor Emeritus, B.Sc., Ph.D. (Lond.)

E.L. McFarland, Professor Emeritus, B.Sc. (W.Ont.), M.Sc. (McMaster)

B.M. Millman, Professor Emeritus, B.Sc. (Car.), Ph.D. (Lond.)

B.G. Nickel, Professor Emeritus, B.E., M.S. (Sask.), Ph.D. (Calif.), F.R.S. (Can.)

R.W. Ollerhead, Professor Emeritus, B.Sc. (W.Ont.), M.S., Ph.D. (Yale)

J.F. Pleva, Professor Emeritus, B.Eng. Ph.D. (Cmcmaster)

D.E. Sullivan, Professor Emeritus, B.Sc. (Mcgill), Ph.D. (M.T.)

L.S. Brown, Associate Professor, B.Sc., M.Sc., Ph.D. (Moscow)

D. de Kerckhove, Assistant Professor, B.Sc. (Mcgill), Ph.D. (Oxfs)

J.R. Dutcher, Professor, B.Sc. (Dal.), M.Sc. (Br. Coll.), Ph.D. (S.Fraser)

P.E. Garrett, Professor, B.Sc. (Qu.), M.Sc., Ph.D. (McMaster)

R. Gellert, Assistant Professor, Dipl. Phys. (Darmstadt)

D. Jiang, Assistant Professor, B.Sc. (Jilin), Ph.D. (Simon Fraser)

S.W. Kycia, Associate Professor, B.Sc. (McGill), M.Sc. (Pa), Ph.D. (Iowa)

V. Ladhiansky, Associate Professor, B.Sc. (Moscow), M.S., Ph.D. (Weizmann)

L. Lehner, Associate Professor, Fa, M.A.F. (Cordoba), Ph.D. (Pitt.)

E.J. Nicol, Professor, B.Sc., (Mt. All.), M.Sc. Ph.D. (McMaster)

J. O'Meara, Associate Professor, B.Sc., Ph.D. (McMaster)

E. Poisson, Professor and Chair, B.Sc. (Laval), M.Sc., Ph.D. (Alta.)

X.R. Qin, Associate Professor, B.Sc., M.Sc. (Tsinghua/Beijing), Ph.D. (S.Fraser)

C.E. Svesson, Professor, B.Sc., Ph.D. (Mcmaster)

R.A. Wickham, Associate Professor, B.Sc. (Tor), Ph.D (Chicago)

M. Williams, Assistant Professor, B.Sc. (Guy.), Ph.D. (Imperial College, Uk.)

School of Engineering

H. Abdulla, Professor and Director, B.Sc. (Baghdad), M.Sc., Ph.D. (Glascow), P.Eng.

R.B. Brown, Professor and Associate Director, Graduate Studies, B.Sc.(Agr), B.Sc.(Eng), M.Sc., Ph.D. (Guelph), P.Eng.

B. van Heyst, Associate Professor and Associate Director, Graduate Studies, B.Sc., M.Sc., Ph.D. (Wat), P.Eng.


J. Ackerman, Adjunct Professor, B.Sc. (Tor.), M.A. (New York), Ph.D. (Cornell)

S. Areibi, Associate Professor, B.Sc. (Al-Fateh), M.A.Sc., Ph.D. (Wat.), P.Eng.

O. Baik, Adjunct Professor, B.Eng., M.Eng. (South Korea), Ph.D. (LaVal)

A. Balachandran, Adjunct Professor, M.Sc. (Guelph), D.V.M. (Srilanka)

O. Basir, Adjunct Professor, B.Sc. (Al-Fateh), M.(S.) (Que), Ph.D. (Wat)

S. Bittman, Adjunct Professor, B.Sc., M.Sc. (Mcgill), Ph.D. (Sask)

A. Bradford, Associate Professor, B.Sc., Ph.D. (Qu.), P.Eng.

T. Buer, Adjunct Professor, M.Sc/Dipl-Eng. Ph.D. (Germany)

S. Chang, Associate Professor, B.S. (China), Ph.D. (Australia)

J. Cherry, Adjunct Professor, B.Sc. (Sask), M.Sc. (Berkeley), Ph.D. (Illinois), P.Eng.

J. Cunderlink, Adjunct Professor, M.Sc., Ph.D., Rndr. (Slovakia)

V.J. Davidson, Professor, B.Eng. (Mcm.), M.Sc. (Guelph), Ph.D. (Tor.), P.Eng.

F.M. Defersha, Assistant Professor, B.Sc. (Ethiopia), M.Eng. (India), Ph.D. (Concordia)

R. Don, Associate Professor, B.A.Sc., M.A.Sc., Ph.D. (Wat.), P.Eng.

M. Dutta, Assistant Professor, B.Sc. (Bangladesh), M.Eng. (McMaster), Ph.D. (Dalhousie)

R. Dutton, Adjunct Professor, B.Sc. (Manitoba), B.A.Sc., M.A.Sc., Ph.D. (Waterloo), P.Eng.

K. Farahbakhsh, Associate Professor, B.Sc., M.A.Sc. (Tunis.), Ph.D. (Alberta), P.Eng.

D. Fayek, Associate Professor, B.Eng. (Ain-Shams), M.Sc., Ph.D. (Wat.), P.Eng.

A. Fazil, Adjunct Professor, B.Sc., M.Sc. (Philadelphia)

B. Gharabaghi, Associate Professor, B.Sc., M.Sc. (Iran), Ph.D. (Guelph), P.Eng.

P. Goel, Adjunct Professor, B.Tech., M.Tech. (India), Ph.D. (Mcgill)

T. Gomi, Adjunct Professor, B.A. ( Ott.), M.Sc. (Alta.), Ph.D. (Japan), P.Eng.

K. Gordon, Associate Professor, B.Sc. (Guelph), Ph.D. (W.Ont.)

S. Gregori, Associate Professor, M.Sc., Ph.D. (Italy)

K. Hall, Professor and VP Research, B.Sc., M.Sc. (Queen's), Ph.D. (Australia), P.Eng.

G. Hayward, Associate Professor, B.A.Sc., M.A.Sc., Ph.D. (Wat.), P.Eng.

J. Huang, Adjunct Professor, B.E.(Civil), B.E.(Tech.Economy) (China), Ph.D. (Guelph), P.Eng.

H. Housain, Adjunct Professor, B.Sc., M.Sc., Ph.D. (Pakistan), Ph.D. (Birmingham, U.K.), P.Eng.

P.A. Irwin, Adjunct Professor, Ph.D., P.Eng.

D. Joy, Professor, B.A.Sc. (Tor.), M.Sc. (Ot.), Ph.D. (Wat.), P.Eng.

H. Lee, Adjunct Professor, B.Sc. (Br.Col.), Ph.D. (Mcg.)

W.D. Lubitz, Assistant Professor, B.Sc., M.Sc., Ph.D. (Califorina), P.Eng.

S. Mahmood, Assistant Professor, B.Sc., M.Sc. (Baltimore), Ph.D. (Waterloo)

E. Mcbean, Professor and Assistant Dean, External Partnerships, B.A.Sc. (B.C.), S.M., C.E., Ph.D. (Mass.), P.Eng.

M. Misra, Associate Professor, B.Sc., M.Sc., M.Phil., Ph.D. (India)

G.S. Mittal, Professor, B.Sc. (Punj Ag.), M.Sc. (Mant), Ph.D. (Ohio), P.Eng.

A.K. Mohanty, Professor, B.Sc., M.Sc., Ph.D. (India)

S. Molloy, Adjunct Professor, B.Eng (Concordia), B.Sc. (Waterloo), M.Eng. Ph.D. (Memorial)

H. Motiei, Adjunct Professor, B.Sc. (Iran), M.Sc., Ph.D. (France)

M.A. Moussa, Associate Professor, B.Sc. (cairo), M.A.Sc. (Moncton), Ph.D. (Wat.), P.Eng.

R. Muresan, Associate Professor, D.Eng (Romania), M.A.Sc., Ph.D. (Wat.), P.Eng.

V. Nguyen, Adjunct Professor, M.Sc. (Vietnam), Ph.D. (Karlsruhe)


B.L. Parker, Professor, B.Sc. (Alegheeny College), M.Sc., Ph.D. (Wat)

P. Piyasena, Adjunct Professor, B.S. (Sri Lanka), M.Sc. (Bangkok), Ph.D. (Ehisa)

M. Roth, Adjunct Professor, B.Sc., M.Sc., Ph.D. (Wat.), P.Eng.
P.W. Physick-Sheard, Associate Professor (Joint Appointment with Clinical Studies), B.V.Sc. (BRIST.), M.Sc., Dip.Vet.Surg. (GUELPH), F.R.C.V.S. (U.K.)

Z. Poljak, Assistant Professor, D.V.M. (CROATIA), M.Sc., Ph.D. (GUELPH)

A. Rajic, Adjunct Professor, D.V.M. (SARAJEVO), M.Sc., Ph.D. (GUELPH)

R. Reid-Smith, Adjunct Professor, B.Sc. (W.ONT.), D.V.M., D.V.Sc. (GUELPH)

C.S. Ribble, Adjunct Professor, B.Sc. (BR.COL.), D.V.M., M.Sc. (SASK.), Ph.D. (GUELPH)

J. Sargeant, Professor and Director of the Centre for Public Health and Zoonoses, D.V.M., M.Sc., Ph.D. (GUELPH)

P.N. Sockett, Adjunct Professor, B.Sc. (HERTFORD), Ph.D. (LONDON)

M.A. Thorburn, Associate Professor, B.Sc. (STANFORD), D.V.M., M.P.V.M., Ph.D. (CALG. If.)

D. Waltner-Toews, Professor, B.A. (GOSHEN COLL.), D.V.M. (SASK.), Ph.D. (GUELPH)
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 over-lap 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).

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 that 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 that 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 Restication.

**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.
Revisions

On the basis of information received from program committees, colleges or departments the 2011-2012 Undergraduate Calendar includes the following revision(s):

Note
Those who may have used the PDFs to download and print off these calendar sections are advised to re-print the revised sections accordingly. Please be aware sectioning, page numbering, table of contents may have changed.

February 1, 2012
Initial publication of the 2011-2012 Undergraduate Calendar.

April 4, 2011
This second publication includes the following revision(s):

Chapter IX Scholarships and Other Awards
Changes and updates to various Scholarships and Awards.

July 20, 2011
This third publication includes the following revision(s):

Chapter VIII Undergraduate Degree Regulations and Procedures
The addition Academic Accommodation for Students with Disabilities, Guidelines and Procedures

October 12, 2011
This fourth publication includes the following revision(s):

Name Change Department of Economics is now the Department of Economics and Finance

Chapter XIV Administration and Faculty
Changes and updates to various listings.

March 15, 2014
Updates for AODA compliance.